

ORIGINAL



0000106942

Outline for Docket # L-00000NN-09-0541-00151

By: Susan Bayer

1. Credibility of Applicant and Associates:

(A) History of Advisors and Solicitors,

- 1(A) - Donald W. Van Brunt, Executive Director of M.C.E.D.A.
- 1-A-1 Exhibit - Court Report on judgment- United States District Court - Judge Joseph M. Levario
- 1-A-2 Exhibit - Article on MCEDA, Executive Director Bill Goodale - North Star Steel cost the people a lot of money.
- 1-A-3 Exhibit - Sworn Voter Registrations (2) VanBrunt
- 1-A-4 Exhibit - Contributions of more than \$25.00- Contributions to Johnson Campaign - Listed as "M.C.E.D.A Executive Director"
- 1-A-5 Exhibit -Mohave County Manager, Ron Walker, slams cost to taxpayers for MCEDA projects

(B) History of Applicants,

1(B) - Mitchell Dong

- 1-B-1 Exhibit - Advertisement - Mitchell Dong, Executive Director of Hualapai Valley Solar, LLC. - posted by the LLC
- 1-B-2 Exhibit - Secretary of the Commonwealth, Massachusetts Chronos Asset Management, Inc. Ref: SEC
- 1-B-3 Exhibit - SEC Order, findings, sanctions and cease and desist
- 1-B-4 Exhibit Secretary of the Commonwealth, Massachusetts Mohave Sun Power, LLC
- 1-B-5 Exhibit Arizona Corporation Commission (2) Hualapai Valley Solar, LLC & Hualapai Valley Solar Section 21, LLC
- 1-B-6 Exhibit Harvard School of Public Health - Robin LaFoley Dong.

(C) History of Land Developer,

1(C) - James M. Rhodes

- 1-C-1 Exhibit - Entitlement applications processing authorization -List of landowners -Truckee Springs Holdings, Inc. James M. Rhodes, President - maps (Lewis & Roca filing)
- 1-C-2 Exhibit - Article- World's largest solar-thermal plant planned for Arizona Land sold by Rhodes - Hawkins - Land not sold yet - separate corporations/ land ( to Dong?) & plant (to wife?)
- 1-C-3 Exhibit - Article - Developer Rhodes seeks Chapter 11 bankruptcy- John G Edwards
- 1-C-4 Exhibit - List of numerous companies related to The Rhodes Companies, LLC also bankrupt.- OMNI Management Group
- 1-C-5 Exhibit - Article - Erin Kenny returning to Las Vegas after stays in prison - by Adrienne Packer - Rhodes paid Kenny

Arizona Corporation Commission  
**DOCKETED**

JAN 26 2010

DOCKETED BY

*MM*

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RECEIVED

1-C-6 –Exhibit – County Supervisors go against all planning for smart growth and “spot zone” for Rhodes. Even MCEDA kept corridors for industry away from residential areas.

2. Lack of Infrastructure:

(D) Proposed Traffic Routing

1(D) –Proposed trucking route for heavy construction traffic

1-D-1 Exhibit – Pictures of proposed route – Open range, school zone, high maintenance road, slow speed limits

3. Wildlife and Domestic Animals

(E) Arizona Game and Fish

1-E-1 Exhibit Letter to Davidson- AZ Fish and Game

1-E-2 Exhibit Letter to LaRow- AZ Fish and Game

1-E-2 Exhibit Pictures (2) Bats mentioned in letter.

4. Water

(F) ADWR – Incomplete or unknown Reporting

1-F-1 Exhibit - Mohave County Water Resources Investigation Fact Sheet - Internet site – Variances of 6.3 million ac.ft. in amount of water available, per ADWR.

1-F-2 Exhibit – AZ Drought Program – Drought Status

(G) USGS Reports

1-G-1 Exhibit-Ground Water Occurrence shows aquifer depletion.

1-G-2 Exhibit – Policy 3.5 – Mohave County General Plan, amended 2005

1-G-3 Exhibit – US Dept. of Interior – USGS Report correct and final – Dave Anning

1-G-4 Exhibit – USGS Power point recharge

1-G-5 Exhibit – Mohave County Policy 36.12, Goal to encourage industries that use less water and energy resources.

1-G-6 Exhibit – Mohave County Business Goals, see #9



A

DEFENDANT

CENTRAL DISTRICT OF CALIFORNIA

DONALD WHITMAN VAN BRUNT

DOCKET NO. CR82-437-CHM

JUDGMENT AND PROBATION/COMMITMENT ORDER

AO 245 (2)

In the presence of the attorney for the government the defendant appeared in person on this date

MONTH DAY YEAR  
August 3, 1982

COUNSEL

☐ WITHOUT COUNSEL

However the court advised defendant of right to counsel and asked whether defendant desired have counsel appointed by the court and the defendant thereupon waived assistance of counsel.

☒ WITH COUNSEL

William Hamilton, retained

(Name of counsel)

PLEA

☒ GUILTY, and the court being satisfied that there is a factual basis for the plea,

☐ NOLO CONTENDERE,

☐ NOT GUILTY

FINDING & JUDGMENT

There being a finding/verdict of

☐ NOT GUILTY. Defendant is discharged

☒ GUILTY.

Defendant has been convicted as charged of the offense(s) of conspiracy to manufacture and possess counterfeit government obligations, in violation of Title 18, United States Code, Sections 371, 471 and 472, as charged in the one count indictment

SENTENCE OR PROBATION ORDER

The court asked whether defendant had anything to say why judgment should not be pronounced. Because no sufficient cause to the contrary was shown, or appeared to the court, the court adjudged the defendant guilty as charged and convicted and ordered that: The defendant hereby committed to the custody of the Attorney General or his authorized representative for imprisonment for a period of two (2) years.

IT IS ADJUDGED that the execution of sentence, as to imprisonment only, is suspended and the defendant is placed on probation for a period of three (3) years, upon the following terms and conditions: 1. comply with all of the rules and regulations of the probation officer; 2. obey all laws; and 3. perform 1,000 hours of community service, as may be determined by the probation officer, taking into account the physical condition of the defendant. The bond of the defendant is ordered exonerated.

SPECIAL CONDITIONS OF PROBATION

ADDITIONAL CONDITIONS OF PROBATION

In addition to the special conditions of probation imposed above, it is hereby ordered that the general conditions of probation set out on reverse side of this judgment be imposed. The Court may change the conditions of probation, reduce or extend the period of probation, any time during the probation period or within a maximum probation period of five years permitted by law, may issue a warrant and revoke probation for a violation occurring during the probation period.

COMMITMENT RECOMMENDATION

FILED: AUGUST 3, 1982  
EDWARD M. KRITZMAN, CLERK

by Joseph M. Levario, Deputy Clerk

It is ordered that the Clerk deliver a certified copy of this judgment and commitment to the U.S. Marshal or other qualified officer.

SIGNED BY

☒ U.S. District Judge

☐ U.S. Magistrate

CONSUELO B. MARSHALL

Date AUGUST 7, 1982

BAY1-A-1

**JUNE 13, 2001 INFORMATION:  
BILL GOODALE EXECUTIVE DIRECTOR  
OFFICE: (520) 692-6970  
FAX: (520) 692-6974**

**MCEDA, ITS ALL ABOUT JOBS AND TAXES**

THE MOHAVE COUNTY ECONOMIC DEVELOPMENT AUTHORITY AFTER REVIEWING COUNTY TAX RECORDS AND EMPLOYMENT FIGURES FROM MCEDA ASSISTED BUSINESSES TO MOHAVE COUNTY IS RELEASING THEIR FINDINGS.

TO DATE EMPLOYMENT FIGURES TOTAL 907 JOBS CREATED FROM MCEDA ASSISTED FIRMS LOCATING TO MOHAVE COUNTY. FROM THAT FIGURE A TOTAL OF \$20,086,100.00 IN WAGES IN 2000 WERE PAID. MANY OF THESE EMPLOYEES HAVE PURCHASED HOMES, RAISING FAMILIES, AND PAYING PROPERTY TAXES TO THE COUNTY.

IN A TWO YEAR PERIOD OVER 4.3 MILLION DOLLARS IN PROPERTY TAXES WERE PAID BY MCEDA ASSISTED BUSINESSES. ACCORDING TO MCEDA EXECUTIVE DIRECTOR

BILL GOODALE, MCEDA'S GOAL IS TO PROVIDE THE COUNTY WITH BUSINESS THAT WILL HAVE GOOD PAYING JOBS, INCREASE THE COUNTY'S GENERAL FUND THROUGH PROPERTY TAXES, AND PROVIDE THE COUNTY WITH A LONG TERM VISION FOR BUSINESS AND INDUSTRIAL GROWTH.

IF YOU TAKE FOR INSTANCE THE NORTHSTAR STEEL PLANT AND ITS YEARLY PROPERTY TAX OF \$714,569.00 FOR 1999, THIS FIGURE ALONE IS EQUIVALENT TO NEARLY 894 HOMES PAYING A PROPERTY TAX ESTIMATED AT \$800.00 PER YEAR.

GOODALE SAYS, MCEDA IS DOING WHAT NO OTHER COUNTY AGENCY CAN DO, THAT IS TO SHIFT THE PROPERTY TAX BURDEN FROM THE MOHAVE COUNTY HOMEOWNER TO NEW BUSINESS AND INDUSTRY.

FINALLY GOODALE SAYS, LAST YEAR'S FUNDING TO MCEDA WAS \$189,200.00. PROPERTY TAXES PAID BY MCEDA ASSISTED BUSINESS AND INDUSTRY TOTALED OVER 5 TIMES THAT.

IF THAT ISN'T BANG FOR THE BUCK, I DON'T KNOW WHAT IS.

**BAY1-A-2**

**AFFIDAVIT OF REGISTRATION  
MONAHVE COUNTY, ARIZONA**

Registration Officer TYPE in PRINT, plainly with ink  
FIRST and MIDDLE NAME must be shown in full using  
CAPITAL LETTERS.

OFFICE  
USE  
ONLY

(1) Full MR/MS MISS VAN BRUNT DENNIS  
Name LAST NAME FIRST MIDDLE  
W

(2) Residence Address Box 322 O.S.R. RESIDENT CITY Kingman ZIP CODE 86401  
House Number Direction Street Name (Subdivision See Reverse) Type Suffix Apt. No.

(3) Mailing Address Off. Shuman MAILING CITY Kingman ZIP CODE 86401  
If Different House Number Direction Street Name (Subdivision See Reverse) Type Suffix Apt. No.

(4) PARTY PREFERENCE IS: DEMOCRAT MUST BE COMPLETED—ARS 16-152.7

(5) Telephone Number 503-3922 (Unless Unlisted)

(6) Born in (Country) Washington - Canada Birth Date 10-9-27

(7) Occupation Refugee Indian Census Number (Optional)

(8) Reason for inability to mark ballot

(9) Father's Name Robert E. Van Brunt

(10) If registered to vote in another State, County, or Precinct, in County of \_\_\_\_\_ State of \_\_\_\_\_  
I, the undersigned officer, do solemnly swear (or affirm) that I am a citizen of the United States and a resident of the State of Arizona and the County of Mohave; that prior to the next General Election, I will be eighteen years of age or over; that I have not been convicted of treason or a felony (or if so, my civil rights have been restored); and that all the statements on both sides of this card are true to the best of my knowledge and belief.

(11) Subscribed and sworn to before me on this date \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

(14) Signature of Registration Officer/Titled \_\_\_\_\_ (15) Signature of Applicant for Registration \_\_\_\_\_

111 Precinct Name \_\_\_\_\_  
112 Use only if currently registered in Mohave County.  
FORMER ADDRESS \_\_\_\_\_  
FORMER PARTY \_\_\_\_\_  
FORMER NAME \_\_\_\_\_

**AFFIDAVIT OF REGISTRATION  
MONAHVE COUNTY, ARIZONA**

Registration Officer TYPE in PRINT, plainly with ink  
FIRST and MIDDLE NAME must be shown in full using  
CAPITAL LETTERS.

OFFICE  
USE  
ONLY

(1) Full MR (MRS) MISS VAN BRUNT Kathryn  
Name LAST NAME FIRST MIDDLE  
LEE

(2) Residence Address Box 325 O.S.R. RESIDENT CITY Kingman ZIP CODE 86401  
House Number Direction Street Name (Subdivision See Reverse) Type Suffix Apt. No.

(3) Mailing Address Off. Shuman MAILING CITY Kingman ZIP CODE 86401  
If Different House Number Direction Street Name (Subdivision See Reverse) Type Suffix Apt. No.

(4) PARTY PREFERENCE IS: DEMOCRAT MUST BE COMPLETED—ARS 16-152.7

(5) Telephone Number 503-3922 (Unless Unlisted)

(6) Born in (Country) Washington Birth Date 7-22-36

(7) Occupation Ref. Teacher Indian Census Number (Optional)

(8) Reason for inability to mark ballot

(9) Father's Name August Wilhelm Ferdinand Schumayer

(10) If registered to vote in another State, County, or Precinct, in County of \_\_\_\_\_ State of \_\_\_\_\_  
I, the undersigned officer, do solemnly swear (or affirm) that I am a citizen of the United States and a resident of the State of Arizona and the County of Mohave; that prior to the next General Election, I will be eighteen years of age or over; that I have not been convicted of treason or a felony (or if so, my civil rights have been restored); and that all the statements on both sides of this card are true to the best of my knowledge and belief.

(11) Subscribed and sworn to before me on this date \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

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111 Precinct Name \_\_\_\_\_  
112 Use only if currently registered in Mohave County.  
FORMER ADDRESS \_\_\_\_\_  
FORMER PARTY \_\_\_\_\_  
FORMER NAME \_\_\_\_\_

FOR U.S. CITIZENS ONLY  
PRINT CLEARLY IN BLACK INK  
PRESS HARD TO MAKE COPY

VOTER REGISTRATION FORM  
MOHAVE COUNTY, ARIZONA

OFFICE USE ONLY

15406 PS

142498

8

JAN 29 1996

BAY1-A-3

1	FULL NAME (CIRCLE ONE) MR. MRS. MS. MISS LAST NAME FIRST NAME <u>Van Beunt</u> <u>David</u>	JR / SR / III <u>None</u>
2	RESIDENCE ADDRESS HOUSE NUMBER DIRECTION (N/S/E/W) STREET NAME (S OR AVE, ETC.) APT / SP. NO. <u>4480-00 Highway 66</u>	MIDDLE NAME <u>Kingman</u> ZIP CODE <u>86401</u>
3	MAILING ADDRESS (IF DIFFERENT) <u>None</u>	
4	POLITICAL PARTY DO NOT LEAVE BLANK. SEE INSTRUCTIONS <u>Republican</u>	
5	BIRTH PLACE (STATE OR COUNTRY) DATE MONTH/DAY/YEAR <u>Wash</u> <u>10-3-29</u>	TELEPHONE NUMBER CITY <u>753-1717</u>
6	YOUR OCCUPATION <u>Exec</u>	LAST 4 DIGITS OF SOC. SEC. NO. (OPTIONAL) <u>1488</u>
7	FATHER'S NAME OR MOTHER'S MAIDEN NAME LAST FIRST MIDDLE <u>Van Beunt</u> <u>Dealey</u>	INDIAN CENSUS NO. (OPTIONAL)
8	ARE YOU CURRENTLY REGISTERED TO VOTE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	FORMER NAME FORMER ADDRESS <u>4436- Box 525</u> <u>Kingman Az</u>

USE MESSAGE NAMES OF ROADS AND LANDMARKS  
MARK "X" WHERE YOUR HOME IS LOCATED

NORTH  
WEST  
EAST  
SOUTH

9 THIS FORM WAS COMPLETED ACCORDING TO MY INSTRUCTIONS BY: (SIGNATURE OF PERSON ASSISTING YOU IF YOU ARE UNABLE TO COMPLETE THE FORM YOURSELF.)

10 I WOULD BE WILLING TO WORK AT A POLLING PLACE ON ELECTION DAY. ☐ YES ☒ NO

READ THIS STATEMENT FIRST TO BE SURE:  
I AM A CITIZEN OF THE UNITED STATES, A RESIDENT OF THE STATE OF ARIZONA AND THE ABOVE NAMED COUNTY AND WILL BE 18 YEARS OF AGE ON OR BEFORE THE TIME OF THE NEXT GENERAL ELECTION.  
I HAVE NOT BEEN CONVICTED OF TREASON OR A FELONY (OR, IF SO, MY CIVIL RIGHTS HAVE BEEN RESTORED). I CERTIFY UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF ARIZONA THAT THE INFORMATION ON THIS REGISTRATION FORM IS TRUE AND CORRECT. PERJURY IS A CLASS 6 FELONY.

11 DATE OF BIRTH  
1-29-56

12 ☒ SIGNATURE  
David Van Beunt

REMOVE TAPE AND FOLD TO MAIL

DESPEGUE LA CINTA ADHESIVA Y DOBLE PARA ENVIAR POR CORREO

## Contributions more than \$25 (from INDIVIDUALS,

## SCHEDULE A

JOHNSON FOR SUPERVISOR  
JUNE 30 REPORT  
January 1, 2008 to May 31, 2008

ID#

100

Name, Address, Occupation and Employer of Contributor	Date	Amount	To Date
KUDEN, JIM P.O. BOX 462045 ESCONDIDO, CA 92046 REAL ESTATE DEVELOPER SELF	04/15/2008	\$200 00	\$200 00
LE GRAND, GEORGETTE 3845 SARATOGA AVE. LAKE HAVASU CITY, AZ 86406 BOOKKEEPER HAVASU HARDWARE	04/15/2008	\$50 00	\$50 00
LE GRAND, SCOTT 3845 SARATOGA AVE. LAKE HAVASU CITY, AZ 86406 MANAGER HAVASU HARDWARE	04/15/2008	\$50 00	\$50 00
MC CORMACK, KEITH 2235 ALPINE DR. LAKE HAVASU CITY, AZ 86403 RETIRED <<employer not specified>>	04/15/2008	\$75 00	\$75 00
PIANO, DAVID 2126 MC CULLOCH BLVD #2 LAKE HAVASU CITY, AZ 86403 HAIR STYLIST SELF	04/15/2008	\$250 00	\$250 00
REYES, CYNTHIA HOLZER 3175 SADDLEBACK DRIVE LAKE HAVASU CITY, AZ 86406 RETIRED <<employer not specified>>	04/15/2008	\$50 00	\$50 00
REYES, IGNACIO 3175 SADDLEBACK DR. LAKE HAVASU CITY, AZ 86406 RETIRED <<employer not specified>>	04/15/2008	\$50 00	\$50 00
THOMAS, NOREEN C. 1295 AVALON AVE. LAKE HAVASU CITY, AZ 86404 RETIRED <<employer not specified>>	04/15/2008	\$50 00	\$150 00
VAN BRUNT, DONALD W. 2486 W. HI WAY + 66 KINGMAN, AZ 86401 EXECUTIVE DIRECTOR M.C.E.D.A.	04/15/2008	\$300 00	\$300 00
MOHR, WERNER 1026 GLENEAGLES DR. LAKE HAVASU CITY, AZ 86406 RETIRED <<employer not specified>>	04/17/2008	\$150 00	\$150 00

## Mohave County manager proposes conservation, environmental action

KINGMAN – Mohave County Manager Ron Walker wants the Board of Supervisors to amend the county's Business Goals to include "natural resources planning and management."

"Mohave County's open space, clean air and water are important, and fragile, assets," he said. "The people who live here and the people who want to live here value these natural resources. But there are those who would take advantage of all of us and, in the process, destroy the very things that make life so good in our area. I want this county to take positive steps to protect and preserve our environment."

Walker has placed three items on the Board of Supervisors meeting agenda for Monday, April 16, that deal with environmental concerns.

He would like specific planning to take place regarding solid waste pollution.

"Illegal dumping has proliferated throughout our rural areas," he said. "Although our ERACE (Environmental Rural Area Cleanup Enforcement) program has been involved in many area-wide cleanups, we have been as effective against illegal dumping as battling an avalanche with a broom and dustpan. We need to map out specific objectives in dealing with this problem and take action."

Water availability and quality is the biggest problem rural Arizona has and will have in coming years, Walker said. "With growth, comes great thirst. Residential development and industrial corporate entities are competing for our water resources. Colorado River states continue to battle for river allocation,



Mohave County Manager Ron Walker

with Nevada being the most recent recipient of a greater share through the Arizona Water Banking Authority."

Pollution along the river is a serious concern, he said, as well as the contamination of ground water through the proliferation of septic tanks. "The Colorado River Regional Sewer Coalition has been working to bring federal funds to sewer river areas. Little major progress has been accomplished.

"Although Mohave County has set an example in building energy efficient facilities and pursuing a Green Building Certification for the new County Administration Building," he said, "we need to be more active in encouraging energy conservation for all new businesses, structures and services in our area."

Walker pointed out that Mohave County has signed agreements in prior years that have taken advantage of the governmental agency, the taxpayers and the future health of the environment.

The County Jail was "mortgaged" through Certificates of Participation to finance the project. Homeowners and other property taxpayers have the privilege of paying over \$400,000 for each job created by economic development debacle. And this was called this Economic Development!

These project planners promised that Griffith locating to Mohave County would reduce local electric costs. Has anyone seen reduced electric costs? Merchant Plants, like Griffith, sell to the wholesale market, to the highest bidder. They are not a utility, and you cannot buy power from them for residential use. The project was sold to the public based upon a promised 5 year pay back period. Below is a summary of tax payments into the County General Fund and Expenses for the project by the General Fund. If 2003 is the first full payment, future payments will most likely decline through depreciation. To get closer to the pay back period, divide \$10,000,000 by \$252,888.14. That equates to 39.5 years payback not 5!

It should be noted that Griffith sued the State and Mohave County to reduce their taxable assessed value on personal property, which directly affects their tax obligation. They lost. They appealed. They lost. Now they have Senator Dean Martin, Republican District 6, introduce Senate Bill 2159 to change the law to cut them a tax break.

From the table below, the County has paid \$2,668,097 on the debt, so far. Griffith will have paid with the 2003 Tax Bill, \$264,300 and some change. For every \$1 paid in taxes, the taxpayers have paid over \$10 in debt payments.

County Loan Payments Payments/General Fund		Griffith Property Tax
1999		\$47.68
2000		\$900.32
2001	\$760,269	\$4044.47
2002	\$813,276	\$3421.70
2003	\$779,526	\$252, 888.14
2004	\$315,026	
2005		

In the recent past, the MCEDA tried to lure industry with tax reductions and other government concessions. They targeted \$10 per hour jobs. A \$10 per hour job equates to \$20,800 annual wage, almost \$3,400 below average job wages. Every job at this level will reduce the average earnings measurement. This is not to condemn this wage; for one earning below a \$10 per hour wage, that it is a nice raise. However, creating low end jobs does not contribute to improving average wage or per capita income. This shows the fallacy of measuring Economic Development by raw job numbers. Better measures revolve around Per Capita and Per Employee measures.



**B**


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[about project](#)
[technology](#)
[faq](#)
[for community](#)
[for contractors](#)

### about the project

The proposed Hualapai Valley Solar Project (HVS Project) is a 340MW concentrating solar power (CSP) plant in Mohave County, Arizona, approximately 27 miles north of Kingman and 100 miles south of Las Vegas on approximately 4,000 acres of private land. The HVS Project will use a proven technology that has been operational in the United States since the 1980's.

The HVS Project will use CSP technology to capture heat generated by sunlight and turn that heat into electricity using the standard Rankine cycle process. The HVS Project will also store excess heat using molten salts so that it can provide electricity when it is most needed during on-peak hours.

The HVS Project is in the early design and permitting stages, with a construction start anticipated in November 2010 and start of operations in June 2013. HVS is working with Fichtner Solar of Germany ([www.fichtnersolar.com](http://www.fichtnersolar.com)), the leading worldwide designer of concentrating solar trough projects, to design the project.

### about the project site

The following characteristics associated with the HVS Project site make it ideal for a solar project:

1. High incoming solar radiation (insolation) value
2. Minimal slope
3. Proximity to electric grid
4. Water availability
5. Proximity to transportation corridors
6. Located on private land

### hualapai valley team

Mitchell Dong, Executive Director  
 Greg Bartlett, Managing Director  
 Mike LaRow, Environmental Director  
 Rob Marsh, Financial Director

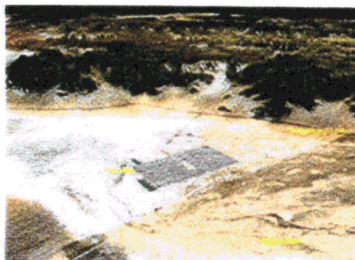
### project status

HVS has completed the preliminary design of the project and is using that now as a basis for discussions with the public and other stakeholders, county officials, state permitting agencies, and federal permitting agencies. HVS is moving to the next stage of project design, which will further define the project while taking into consideration the input and comments received from the public, other stakeholders, and permitting authorities. HVS anticipates this stage of design taking approximately one year.

Current View of Site



Project Overlaid on Site



### rendered images from the site



view more pictures on  
[flickr™](#)



**The Commonwealth of Massachusetts  
William Francis Galvin**

Secretary of the Commonwealth, Corporations Division  
One Ashburton Place, 17th floor  
Boston, MA 02108-1512  
Telephone: (617) 727-9640

**CHRONOS ASSET MANAGEMENT, INC. Summary Screen**



Help with this form

**Request a Certificate**

The exact name of the Foreign Corporation: CHRONOS ASSET MANAGEMENT, INC.

Entity Type: Foreign Corporation

Identification Number: 043292528

Old Federal Employer Identification Number (Old FEIN): 000517303

Date of Registration in Massachusetts: Nov 10 1995

The is organized under the laws of: State: DE Country: USA on: Oct 17 1995

Current Fiscal Month / Day: 12 / 31

Previous Fiscal Month / Day: 01 / 01

The location of its principal office:

No. and Street: 85 HAMILTON STREET  
City or Town: CAMBRIDGE State: MA Zip: 02139 Country: USA

The location of its Massachusetts office, if any:

No. and Street: 85 HAMILTON STREET  
City or Town: CAMBRIDGE State: MA Zip: 02139 Country: USA

Name and address of the Registered Agent:

Name: MITCHELL L. DONG  
No. and Street: 85 HAMILTON ST.,  
City or Town: CAMBRIDGE State: MA Zip: Country: USA


The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code
PRESIDENT	MITCHELL L. DONG	85 HAMILTON ST., CAMBRIDGE, MA USA
TREASURER	MITCHELL L. DONG	85 HAMILTON ST., CAMBRIDGE, MA USA

business entity stock is publicly traded:   

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

	Par Value Per Share	Total Authorized by Articles	Total Issued
--	---------------------	------------------------------	--------------

Class of Stock	Enter 0 if no Par	of Organization or Amendments <i>Num of Shares      Total Par Value</i>		and Outstanding <i>Num of Shares</i>
No Stock Information available online. Prior to August 27, 2001, records can be obtained on microfilm.				
<input type="checkbox"/> Consent <input type="checkbox"/> Manufacturer <input type="checkbox"/> Confidential Data <input type="checkbox"/> Does Not Require Annual Report <input type="checkbox"/> Partnership <input type="checkbox"/> Resident Agent <input type="checkbox"/> For Profit <input type="checkbox"/> Merger Allowed				
<b>Select a type of filing from below to view this business entity filings:</b> ALL FILINGS Amended Foreign Corporations Certificate Annual Report Annual Report - Professional Application for Reinstatement				
<div style="text-align: center;"> <input type="button" value="View Filings"/>      <input type="button" value="New Search"/> </div>				
<div style="border: 1px solid black; padding: 5px; text-align: center;">Comments</div>				
<div style="display: flex; justify-content: space-between;"> <div>© 2001 - 2010 Commonwealth of Massachusetts All Rights Reserved</div> <div style="text-align: right;">   <a href="#">Help</a> </div> </div>				

**UNITED STATES OF AMERICA**  
**Before the**  
**SECURITIES AND EXCHANGE COMMISSION**

SECURITIES ACT OF 1933  
Release No. 8883 / January 25, 2008

SECURITIES EXCHANGE ACT OF 1934  
Release No. 57202 / January 25, 2008

INVESTMENT ADVISERS ACT OF 1940  
Release No. 2696 / January 25, 2008

INVESTMENT COMPANY ACT OF 1940  
Release No. 28135 / January 25, 2008

ADMINISTRATIVE PROCEEDING  
File No. 3-12934

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**In the Matter of**

**Chronos Asset Management, Inc.  
and Mitchell L. Dong,**

**Respondents.**

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**: ORDER INSTITUTING  
: ADMINISTRATIVE AND CEASE-AND-  
: DESIST PROCEEDINGS, MAKING  
: FINDINGS, AND IMPOSING  
: REMEDIAL SANCTIONS AND A  
: CEASE-AND-DESIST ORDER  
: PURSUANT TO SECTION 8A OF THE  
: SECURITIES ACT OF 1933, SECTION  
: 21C OF THE SECURITIES  
: EXCHANGE ACT OF 1934, SECTIONS  
: 203(e) and 203(f) OF THE  
: INVESTMENT ADVISERS ACT OF  
: 1940, AND SECTIONS 9(b) AND 9(f) OF  
: THE INVESTMENT COMPANY ACT  
: OF 1940**

**I.**

The Securities and Exchange Commission ("Commission") deems it appropriate and in the public interest that public administrative and cease-and-desist proceedings be, and hereby are, instituted pursuant to Section 8A of the Securities Act of 1933 ("Securities Act"), Section 21C of the Securities Exchange Act of 1934 ("Exchange Act"), Sections 203(e) and 203(f) of the Investment Advisers Act of 1940 ("Advisers Act") and Sections 9(b) and 9(f) of the Investment Company Act of 1940 ("Investment Company Act") against Chronos Asset Management, Inc. ("Chronos") and Mitchell L. Dong ("Dong") (collectively "Respondents").

## II.

In anticipation of the institution of these proceedings, Respondents have submitted an Offer of Settlement (the "Offer"), which the Commission has determined to accept. Solely for the purpose of these proceedings and any other proceedings brought by or on behalf of the Commission, or to which the Commission is a party, and without admitting or denying the findings herein, except as to the Commission's jurisdiction over them and the subject matter of these proceedings, which are admitted, Respondents consent to the entry of this Order Instituting Administrative and Cease-and-Desist Proceedings, Making Findings, and Imposing Remedial Sanctions and a Cease-and-Desist Order Pursuant to Section 8A of the Securities Act of 1933, Section 21C of the Securities Exchange Act of 1934, Sections 203(e) and 203(f) of the Investment Advisers Act of 1940, and Sections 9(b) and 9(f) of the Investment Company Act of 1940 ("Order"), as set forth below.

## III.

On the basis of this Order and Respondents' Offer, the Commission finds<sup>1</sup> that:

### Respondents

1. Chronos Asset Management, Inc. is a Delaware corporation based in Cambridge, Massachusetts that has been owned and controlled by Dong since it was incorporated in 1995. At all relevant times, Chronos provided investment advisory services to two hedge funds: Chronos Fund I, LP ("Chronos Onshore Fund") and Chronos Offshore Fund, Inc. ("Chronos Offshore Fund") (collectively, the "Chronos Funds"). Chronos has never been registered with the Commission.

2. Mitchell L. Dong, age 54, is a resident of Boston, Massachusetts. Dong is Chronos's founder and at all relevant times owned Chronos and served as its president and chief executive officer. Dong also served as director of the Chronos Offshore Fund. As principal owner of Chronos, Dong had the ultimate decision-making authority for Chronos's investments.

### Summary

3. This case involves a fraudulent market timing and late trading scheme by hedge fund adviser Chronos and its principal, Dong. From January 2001 to September 2003 (the "Relevant Period"), Chronos and Dong used deceptive means to continue market timing in mutual funds that had previously attempted to detect and restrict, or that otherwise would not have permitted, Chronos's trading. In addition, from May 2003 to September 2003, Chronos traded mutual fund shares after 4:00 p.m. Eastern Time ("ET") while receiving the same day's price. By virtue of their conduct, Respondents willfully

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<sup>1</sup> The findings herein are made pursuant to Respondents' Offers of Settlement and are not binding on any other person or entity in this or any other proceeding.

violated, and aided and abetted and caused violations of, the antifraud and mutual fund pricing provisions of the federal securities laws.

### **Facts**

4. Dong owned and controlled Chronos, which controlled the Chronos Funds. He also oversaw Chronos's overall operations and investment strategies. During the Relevant Period, Chronos managed approximately \$270 million for the Chronos Funds. Chronos used market timing as a primary investment strategy. It executed the strategy through the use of a proprietary statistical model that analyzed historical trading data and market trends and generated "signals" that determined whether and when Chronos should buy and sell mutual fund shares. Market timing includes: (i) frequent buying and selling of shares of the same mutual fund or (ii) buying or selling mutual fund shares in order to exploit inefficiencies in mutual fund pricing. Market timing, while not illegal *per se*, can harm other mutual fund shareholders because it can dilute the value of their shares, if the market timer is exploiting pricing inefficiencies, or disrupt the management of the mutual fund's investment portfolio and can cause the targeted mutual fund to incur costs borne by other shareholders to accommodate frequent buying and selling of shares by the market timer. From May to September 2003, Chronos also engaged in "late trading," whereby Chronos placed mutual funds trade orders after mutual fund companies calculated their daily net asset value ("NAV"), while obtaining the same day's NAV pricing.

### **Market Timing**

5. During the Relevant Period, Respondents engaged in deceptive tactics by placing mutual fund trade orders with registered broker-dealer Prudential Securities, Inc. ("Prudential") that contained false and misleading information to hide Chronos's identity from mutual funds and otherwise facilitate Chronos' market timing strategies. Chronos disguised its identity and volume and frequency of its trading by using multiple customer account names (some of which were in the names of other corporate entities) and numbers.

6. Chronos's traders typically placed multiple mutual fund transactions per day with Prudential during the Relevant Period. Chronos opened its first account with registered representatives based in Prudential's Boston, Massachusetts branch office in January 2000. During the Relevant Period, Respondents were aware that mutual fund companies typically placed limits on the number of mutual fund trades that could be placed in a particular mutual fund and tracked mutual fund trades by customer name and customer account number. As a result, Respondents were aware that if they repeatedly placed short-term mutual fund trades using a single account name and number through one broker, the mutual fund companies would likely determine that Chronos's market timing was excessive and would block any further trades. Throughout the Relevant Period, through Prudential, Chronos was notified of "block notices" from mutual fund

companies prohibiting Chronos from further trading in those fund families because of Chronos's previous market timing activity.<sup>2</sup>

7. Respondents opened a total of 21 additional accounts at Prudential (between 2000 and February 2003) after Chronos was prohibited from trading in certain mutual fund families. Respondents maintained, and market timed through, these accounts until Chronos ceased its market timing activities in September 2003. Many of Chronos's accounts at Prudential bore names that appeared unrelated to Chronos, such as the names of a Chronos trader's wife, hometown and dog. The primary purpose in opening these accounts was to conceal the accounts' connection to Chronos and thereby allow Chronos to continue to trade in mutual funds that had previously attempted to prohibit it from trading due to market timing.

8. Chronos used separate Prudential accounts as part of a "rotation strategy" to disguise its market timing activities from mutual fund companies. As part of its rotation strategy, Chronos made multiple purchases into a fund family using multiple accounts and traded in one fund until an account was blocked. Then Chronos rotated the blocked account out of the fund into another fund, and continued to use the remaining accounts to trade in the original fund, with the intent of deceiving mutual funds as to their identity. Using its various accounts, Chronos also divided large trades into smaller-sized trades in an effort to "fly under the radar" of mutual funds that detected market timers by monitoring trades with high dollar values.

#### **Late Trading**

9. Rule 22c-1(a) under the Investment Company Act requires registered open-end investment companies ("mutual funds"), persons designated in such funds' prospectuses as authorized to consummate transactions in any such security, their principal underwriters, and dealers in the funds' securities to sell and redeem fund shares at a price based on the current NAV next computed after receipt of an order to buy or redeem. Late trading refers to the act of executing trades in a mutual fund's shares after the time as of which the mutual fund has calculated its NAV in a manner that allows the trade to receive that day's net asset value per share, rather than the next day's net asset value per share. Most mutual funds, including the funds Chronos traded, calculate their daily net asset value as of the close of major United States securities exchanges and markets (normally 4:00 p.m. ET). Although Respondents were not themselves subject to Rule 22c-1, persons subject to that Rule must sell mutual fund shares at the NAV next computed after receipt of the trade order.

10. From May 2003 to September 2003, Chronos late traded through two broker-dealers (Broker-Dealer A and Broker-Dealer B) (which were unrelated to Prudential). Broker-Dealer A and Broker-Dealer B submitted Chronos' mutual fund trades through clearing brokers (Clearing Broker-Dealer A and Clearing Broker-Dealer

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<sup>2</sup> Block notices restricted market timing trading by, among other things, prohibiting future trades in specific accounts, by particular registered representatives or by broker-dealer, and typically included a statement concerning the mutual fund's aversion to market timing.



B, respectively), each of which had dealer agreements with the relevant mutual funds. Broker-Dealer A and Broker-Dealer B routinely allowed Chronos to communicate orders to purchase and sell mutual fund shares after 4:00 p.m. ET at that day's NAV. During this period, between approximately 4:00 and 4:15 p.m. ET each day, Chronos traders analyzed both aftermarket news reports and the movement in the futures market (which continues to trade until 4:15 p.m. ET) to determine whether to buy or sell large cap mutual funds. Chronos' late trading arrangements thus allowed the traders to purchase or sell mutual fund shares at prices set as of the market close with the benefit of the aftermarket information. Chronos thereby obtained a competitive advantage by being able to capitalize on the aftermarket news and futures market trading, while obtaining the previously calculated NAV.

11. Respondents realized significant profits as a result of the conduct set forth in paragraphs 4-10, above.

#### **Violations of the Federal Securities Laws**

12. As a result of the conduct described in paragraphs 5-8 and 11 above, Respondents willfully violated Section 17(a) of the Securities Act, which prohibits fraudulent conduct in the offer or sale of securities.

13. As a result of the conduct described in paragraphs 5-8 and 11 above, Respondents willfully violated Section 10(b) of the Exchange Act and Rule 10b-5 thereunder, which prohibit fraudulent conduct in connection with the purchase or sale of securities.

14. As a result of the conduct described in paragraphs 9-11 above, Respondents willfully aided and abetted and caused Clearing Broker-Dealer A's and Clearing Broker-Dealer B's violations of Section 17(a) of the Securities Act and Section 10(b) of the Exchange Act and Rule 10b-5 thereunder.

15. As a result of the conduct described in paragraphs 9-11 above, Respondents willfully aided and abetted and caused violations of Rule 22c-1(a) of the Investment Company Act by Clearing Broker-Dealer A and Clearing Broker-Dealer B.

#### **Undertakings**

Respondent Dong undertakes to provide to the Commission, within 10 days after the end of the 12-month suspension period described below, an affidavit that he has complied fully with the sanctions described in Section IV below.

#### **IV.**

In view of the foregoing, the Commission deems it appropriate and in the public interest to impose the sanctions specified in Respondents' Offers.

Accordingly, pursuant to Section 8A of the Securities Act, Section 21C of the

Exchange Act, Sections 203(e) and 203(f) of the Advisers Act and Sections 9(b) and 9(f) of the Investment Company Act, it is hereby ORDERED that:

- A. Respondent Chronos is hereby censured;
- B. Respondents Chronos and Dong shall cease and desist from committing or causing any violations and any future violations of Section 17(a) of the Securities Act, Section 10(b) of the Exchange Act and Rule 10b-5 thereunder, and Rule 22c-1 under the Investment Company Act;
- C. Respondent Dong be, and hereby is, suspended from association with any investment adviser and is prohibited from serving or acting as an employee, officer, director, member of an advisory board, investment adviser or depositor of, or principal underwriter for, a registered investment company or affiliated person of such investment adviser, depositor, or principal underwriter for a period of 12 months, effective on the second Monday following entry of this Order; and
- D. IT IS FURTHER ORDERED THAT Respondents shall together, on a joint and several basis, pay disgorgement in the amount of \$303,000 plus prejudgment interest in the amount of \$73,915.80, and pay a civil money penalty in the amount of \$1,800,000. Respondents shall satisfy this obligation by making payment to the United States Treasury within 30 days of the entry of this Order. Such payment shall be: (i) made by United States postal money order, certified check, bank cashier's check or bank money order; (ii) made payable to the Securities and Exchange Commission; (iii) hand-delivered or mailed to the Office of Financial Management, Securities and Exchange Commission, Operations Center, 6432 General Green Way, Stop 0-3, Alexandria, VA 22312; and (iv) submitted under cover letter that identifies Chronos and Dong as Respondents in these proceedings, the file number of these proceedings, a copy of which cover letter and money order or check shall be sent to John T. Dugan, Associate Regional Director, Securities and Exchange Commission, Boston Regional Office, 33 Arch Street, 23rd Floor, Boston, Massachusetts 02110. Such disgorgement, prejudgment interest and civil money penalty may be distributed pursuant to Section 308(a) of the Sarbanes-Oxley Act of 2002 ("Fair Fund distribution"). Regardless of whether such Fair Fund distribution is made, amounts ordered to be paid as civil money penalties pursuant to this Order shall be treated as penalties paid to the government for all purposes, including all tax purposes. To preserve the deterrent effect of the civil penalty, Respondents agree that they shall not, after offset or reduction in any Related Investor Action based on Respondent's payment of disgorgement in this action, argue that they are entitled to, nor shall they further benefit by offset or reduction of any part of Respondents' payment of a civil penalty in this action ("Penalty Offset"). If the court in any Related Investor Action grants such a Penalty Offset, Respondents agree that they shall, within 30 days after entry of a final order granting the Penalty Offset, notify the Commission's counsel in this action and pay the amount of the Penalty Offset to the United States Treasury or to a Fair Fund, as the Commission directs. Such a payment shall not be deemed an additional civil penalty and shall not be deemed to change the amount of the civil penalty imposed in this proceeding.

For purposes of this paragraph, a "Related Investor Action" means a private damages action brought against Respondents by or on behalf of one or more investors based on substantially the same facts as alleged in the Order instituted by the Commission in this proceeding.

By the Commission.

Nancy M. Morris  
Secretary



**The Commonwealth of Massachusetts  
William Francis Galvin**

Secretary of the Commonwealth, Corporations Division  
One Ashburton Place, 17th floor  
Boston, MA 02108-1512  
Telephone: (617) 727-9640

**MOHAVE SUN POWER LLC Summary Screen**



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**Request a Certificate**

**The exact name of the Foreign Limited Liability Company (LLC):** MOHAVE SUN POWER LLC

**Entity Type:** Foreign Limited Liability Company (LLC)

**Identification Number:** 001006991

**Date of Registration in Massachusetts:** 06/25/2009

**The is organized under the laws of:** State: DE Country: USA on: 01/29/2009

**The location of its principal office:**

No. and Street: 85 HAMILTON ST.,  
City or Town: CAMBRIDGE State: MA Zip: 02139 Country: USA

**The location of its Massachusetts office, if any:**

No. and Street:  
City or Town: State: Zip: Country:

**The name and address of the Resident Agent:**

Name: ROBIN LAFOLEY  
No. and Street: 85 HAMILTON ST.  
City or Town: CAMBRIDGE State: MA Zip: 02139 Country: USA

**The name and business address of each manager:**

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code
MANAGER	ROBIN LAFOLEY	85 HAMILTON ST., CAMBRIDGE, MA 02139 USA
MANAGER	GREG BARTLETT	85 HAMILTON ST., CAMBRIDGE, MA 02139 USA

**The name and business address of the person in addition to the manager, who is authorized to execute documents to be filed with the Corporations Division.**

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code

**The name and business address of the person(s) authorized to execute, acknowledge, deliver and record any recordable instrument purporting to affect an interest in real property**

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code
REAL PROPERTY	MITCHELL L. DONG	85 HAMILTON ST., CAMBRIDGE, MA 02138 USA
REAL PROPERTY	ROBIN LAFOLEY	85 HAMILTON ST., CAMBRIDGE, MA 02139 USA
REAL PROPERTY	GREG BARTLETT	85 HAMILTON ST., CAMBRIDGE, MA 02139 USA

☐ Consent    ☐ Manufacturer    ☐ Confidential Data    ☐ Does Not Require Annual Report  
☐ Partnership    ☐ Resident Agent    ☐ For Profit    ☐ Merger Allowed

Select a type of filing from below to view this business entity filings:

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 Application For Registration  
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<b>File Number:</b> R-1531551-5	<b>Check Corporate Status</b>
<b>Corp. Name:</b> HUALAPAI VALLEY SOLAR LLC	

**Domestic Address**

%UNITED CORPORATE SERVICES INC
7226 E MAVERICK RD
SCOTTSDALE, AZ 85258

**Foreign Address**

%UNITED CORPORATE SERVICES INC
874 WALKER RD # C
DOVER, DE 19904

**Statutory Agent Information**

<b>Agent Name:</b> UNITED CORPORATE SERVICES INC
<b>Agent Mailing/Physical Address:</b>
7226 E MAVERICK RD
SCOTTSDALE, AZ 85258
<b>Agent Status:</b> APPOINTED 06/09/2009
<b>Agent Last Updated:</b> 06/12/2009

**Additional Corporate Information**

<b>Corporation Type:</b> FOREIGN L.L.C.	<b>Business Type:</b>
<b>Incorporation Date:</b> 06/09/2009	<b>Corporate Life Period:</b>
<b>Domicile:</b> DELAWARE	<b>County:</b> MARICOPA
<b>Approval Date:</b> 06/12/2009	<b>Original Publish Date:</b>

BAY1-B-5

### Member Information

<b>GREG BARTLETT</b> <b>MANAGER</b> 85 HAMILTON ST CAMBRIDGE,MA 02139 <b>Date of Taking Office:</b> 06/09/2009 <b>Last Updated:</b> 06/12/2009	<b>ROBIN LAFOLEY</b> <b>MANAGER</b> 1 BERKELEY ST CAMBRIDGE,MA 02138 <b>Date of Taking Office:</b> 06/09/2009 <b>Last Updated:</b> 06/12/2009
<b>MOHAVE SUN POWER LLC</b> <b>MEMBER</b> 1 BERKELEY ST CAMBRIDGE,MA 02138 <b>Date of Taking Office:</b> 06/09/2009 <b>Last Updated:</b> 06/12/2009	

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Document Number	Description	Date Received
<b>02812628</b>	APPLICATION FOR REGISTRATION	06/09/2009

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<b>Corporate Inquiry</b>	
<b>File Number:</b> R-1531552-6	<b>Check Corporate Status</b>
<b>Corp. Name:</b> HUALAPAI VALLEY SOLAR SECTION 21 LLC	

**Domestic Address**

UNITED CORPORATE SERVICES INC
7226 E MAVERICK RD
SCOTTSDALE, AZ 85258

**Foreign Address**

%UNITED CORPORATE SERVICES INC
874 WALKER RD # C
DOVER, DE 19904

**Statutory Agent Information**

<b>Agent Name:</b> UNITED CORPORATE SERVICES INC
<b>Agent Mailing/Physical Address:</b>
7226 E MAVERICK RD
SCOTTSDALE, AZ 85258
<b>Agent Status:</b> APPOINTED 06/09/2009
<b>Agent Last Updated:</b> 06/12/2009

**Additional Corporate Information**

<b>Corporation Type:</b> FOREIGN L.L.C.	<b>Business Type:</b>
<b>Incorporation Date:</b> 06/09/2009	<b>Corporate Life Period:</b>
<b>Domicile:</b> DELAWARE	<b>County:</b> MARICOPA
<b>Approval Date:</b> 06/12/2009	<b>Original Publish Date:</b>

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**Member Information**

GREG BARTLETT MANAGER 85 HAMILTON ST CAMBRIDGE, MA 02139 <b>Date of Taking Office:</b> 06/09/2009 <b>Last Updated:</b> 06/12/2009	ROBIN LAFOLEY MANAGER 1 BERKELEY ST CAMBRIDGE, MA 02138 <b>Date of Taking Office:</b> 06/09/2009 <b>Last Updated:</b> 06/12/2009
MOHAVE SUN POWER LLC MEMBER 1 BERKELEY ST CAMBRIDGE, MA 02138 <b>Date of Taking Office:</b> 06/09/2009 <b>Last Updated:</b> 06/12/2009	

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Document Number	Description	Date Received
<b>02812629</b>	APPLICATION FOR REGISTRATION	06/09/2009

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**BAY1-B-5**

## **Harvard School of Public Health**

### **James Robins**

**Mitchell L. and Robin LaFoley Dong Professor of Epidemiology**

**Department of Epidemiology**

**Department of Biostatistics**

677 Huntington Avenue

Kresge Building Room 823

Boston, Massachusetts 02115

617.432.0206

[robins@hsph.harvard.edu](mailto:robins@hsph.harvard.edu)

### **Research**

The principal focus of Dr. Robins' research has been the development of analytic methods appropriate for drawing causal inferences from complex observational and randomized studies with time-varying exposures or treatments. The new methods are to a large extent based on the estimation of the parameters of a new class of causal models - the structural nested models - using a new class of estimators - the G estimators. The usual approach to the estimation of the effect of a time-varying treatment or exposure on time to disease is to model the hazard incidence of failure at time  $t$  as a function of past treatment history using a time-dependent Cox proportional hazards model. Dr. Robins has shown the usual approach may be biased whether or not further adjusts for past confounder history in the analysis when:

(A1) there exists a time-dependent risk factor for or predictor of the event of interest that also predicts subsequent treatment, and (A2) past treatment history predicts subsequent risk factor level.

Conditions (A1) and (A2) will be true whenever there are time-dependent covariates that are simultaneously confounders and intermediate variables.

In contrast to previously proposed methods, Dr. Robins' methods can:

1. be used to estimate the effect of a treatment (e.g., prophylaxis for PCP) or exposure on a disease outcome in the presence of time-varying covariates (e.g., number of episodes of PCP) that are simultaneously confounders and intermediate variables on the causal pathway from exposure disease;
2. allow an analyst to adjust appropriately for the effects of concurrent non-randomized treatments or non-random non-compliance in a randomized clinical trial. For example, in the AIDS Clinical Trial Group (ACTG) trial 002 of the effects of high-dose versus low-dose AZT on the survival of AIDS patients, patients in the low-dose arm had improved survival, but they also took more aerosolized pentamidine (a non-randomized concurrent treatment);
3. allow an analyst to adequately incorporate information on the surrogate markers (e.g., CD4 count) in order to stop at the earliest possible moment, randomized trials to the effect of the treatment (e.g., AZT) on survival.

Dr. Robins has applied his methods to analyze the effect of a non-randomized treatment aerosolized pentamidine on the survival of AIDS patients in ACTG Trial 002; the effect of

**BAY1-B-6**

arsenic exposure on the mortality experience of a cohort of Montana copper smelter workers; the effect of formaldehyde on the respiratory disease mortality of a cohort of U.S. chemical workers; and the effect of smoking cessation on subsequent myocardial infarction and death within the MRFIT randomized trial.

### **Education**

M.D., 1976, Washington University School of Medicine

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**Harvard School of Public Health, 677 Huntington Avenue, Boston, MA 02115**

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**BAY1-B-6**

C

March 6, 2009

Mohave County  
Development Services Department  
3675 E. Andy Devine Avenue  
Kingman, AZ 86401

RE: Hualapai Valley Solar – Entitlement Applications Processing Authorization

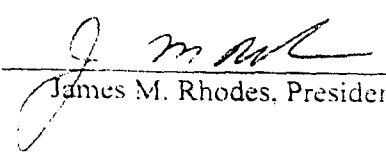
To Whom It May Concern:

The purpose of this letter is to formally authorize the firms and individuals identified below to process all necessary applications, including but not limited to General Plan amendment, Area Plan, and Zoning applications, which may be related to securing entitlements for a solar energy generating plant on behalf of the respective property owner for the property legally described in the enclosed document.

- Hualapai Valley Solar, LLC;
- The law firm of Gammage & Burnham P.L.C., including but not limited to its representatives, Grady Gammage, Jr., Thomas J. McDonald, Stephen W. Anderson, and Rob Lane; and,
- Tierra Environmental Consultants, LLC, including but not limited to its representatives, Jason Ramsey

Canberra Holdings, LLC has the development rights for the parcels identified above, more fully described as the full legal description enclosed with this letter.

Sincerely,  
Canberra Holdings, LLC  
By: Truckee Springs Holdings, Inc.,  
a Nevada corporation, its Manager

By   
James M. Rhodes, President

Encl.: Legal Description

## Map Key APN

APN	Owner	City	State
1 335-03-001	DESERT COMMUNITIES INC	PHOENIX	AZ
2 335-03-032	Deauvens Jo Ann Etal	SEFKONX	VA
3 341-01-082	PETTFORD ROY L & SHIRLEY JT	WEST ORANGE	NJ
4 341-01-081	FRESQUEZ ERNEST JR	LAS VEGAS	NV
5 341-01-083	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
6 341-01-079	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
7 341-01-074	TUKIOS RAFAEL & ROSALINDA JT	DOLAN SPRINGS	AZ
8 341-01-057	AZAM MISBAHUL CPWRS	PHOENIX	AZ
9 341-01-058	PONCE THOMAS M JR ETAL	LIVINGSTON	NJ
10 341-01-018	NEAL JOHN T ETAL	KINGMAN	AZ
11 341-01-069	GRAZIANO A J & JOAN	CENTENNIAL	CO
12 341-01-091	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
13 341-01-040	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
14 341-01-034	GRAZIANO EUGENE M	MELBOURNE	FL
15 341-01-032	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
16 341-01-038	IAFFARO VINCENT J & ANNA R ETAL JT	RIDGEFIELD PARK	NJ
17 341-01-023	NEAL JOHN T ETAL	KINGMAN	AZ
18 341-01-075	RL 40 S LLC	LAS VEGAS	NV
19 341-01-076	RL 40 S LLC	LAS VEGAS	NV
20 341-01-021	NEAL JOHN T ETAL	KINGMAN	AZ
21 341-01-028	GACH ANTHONY & MARY JT	WHITEHOUSE STATION	NJ
22 341-01-061	BOGZER HELEN E	BROOKLYN	NY
23 341-01-025	DODSON CAROLYN ETAL	KINGMAN	AZ
24 341-01-026	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
25 341-01-067	BLAKELY BRET A & DENISE L	HAPPY VALLEY	OR
26 341-01-027	TATARKA ROBERT F	PERTH AMBOY	NJ
27 341-01-060	D'ALESSANDRO FORETTO & MARY JT	SUMMIT	IN
28 341-01-054	ARNOLD MEL	LONG BRANCH	NJ
29 341-01-063	WOOD ELIZABETH C	MADISON	NJ
30 341-01-062	KONELL JOHN C	CHACKAMAN	OR
31 341-01-064	NATH NEVADA LLC	LAS VEGAS	NV
32 341-01-072	RL 40 S LLC	LAS VEGAS	NV
33 341-01-059	LA MASTRA CHARLES & VIRGINIA E JT	UMLEREN	PA
34 341-01-066	JONES JOHN & LOIS TRUSTEES ETAL	LAS VEGAS	NV
35 341-01-065	NATH NEVADA LLC	LAS VEGAS	NV
36 341-01-009	Ulrich Richard	SPRING HILL	FL
37 341-01-010	Archer Investments LLC	LAS VEGAS	NV
38 341-01-011	Cocchiere Mae	TOMS RIVER	NJ
39 341-01-012	STAHL DENNIS & SHERYL	DANA POINT	CA
40 341-01-015	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
41 341-01-035	MUSSO GASPARE & MARY JT	LONG ISLAND CITY	NY
42 341-01-031	CHINIGO ANDREW M	SAN ANTONIO	TX
43 341-01-037	BROCKMAN KELLY	LAS VEGAS	NV
44 341-01-036	CARR TYREE & MARY TRUSTEES	LAS VEGAS	NV
45 341-01-030	CARR TYREE & MARY TRUSTEES	LAS VEGAS	NV
46 341-01-014	CARR TYREE & MARY TRUSTEES	LAS VEGAS	NV
47 341-01-070	JAMES GENE E JT	LYONS	KS
48 341-01-071	THORNBURG MICHAEL & CHRISTINE JT	BRIDGMAN	MI
49 341-01-016	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
50 341-01-033	RL 40 S LLC	LAS VEGAS	NV
51 341-01-039	COMPTON ERIC & JULIE	MUNSTER	IN
52 341-01-068	RL 40 S LLC	LAS VEGAS	NV
53 341-05-005	DESERT COMMUNITIES INC	PHOENIX	AZ
54 341-05-048	DESERT COMMUNITIES INC	PHOENIX	AZ
55 341-05-039	DESERT COMMUNITIES INC	PHOENIX	AZ
56 335-16-016	Vitello Anthony M & Loretta JT	PORT SAINT LUCIE	FL
57 335-16-015	Foley Sally M	THOMASTON	ME
58 335-16-003	Tomlin Richard D & Bonnie J Trustees	KINGMAN	AZ
59 335-16-004	Tiedeman Greg	HENDERSON	NV
60 335-16-001	Duca Frank	ROSELLE	NJ
61 335-16-006	Fleming Betty J	LAKE HAVASU CITY	AZ
62 335-16-005	Tomelevage Joseph M & Lois JT	DEERFIELD BEACH	FL
63 341-01-084	DESERT COMMUNITIES INC	PHOENIX	AZ
64 341-01-084	DESERT COMMUNITIES INC	PHOENIX	AZ
65 341-01-084	DESERT COMMUNITIES INC	PHOENIX	AZ
66 341-01-084	DESERT COMMUNITIES INC	PHOENIX	AZ
67 341-01-002	DESERT COMMUNITIES INC	PHOENIX	AZ
68 341-01-002	DESERT COMMUNITIES INC	PHOENIX	AZ
69 341-01-002	DESERT COMMUNITIES INC	PHOENIX	AZ
70 341-01-002	DESERT COMMUNITIES INC	PHOENIX	AZ
71 341-01-022	NEAL JOHN T	KINGMAN	AZ
72 341-01-024	NEAL JOHN T ETAL	KINGMAN	AZ
73 341-01-045	SPINA EMANUELE & GENEVIEVE JT	WARREN	NJ
74 341-01-047	SCOTTO-D'ABUSCO ANTHONY &	COLONIA	NJ
75 341-01-052	FERNICOLA CHARLES A JR	NEWARK	NJ
76 341-01-043	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
77 341-01-044	FARNWORTH TAMMY	JACKSONVILLE	FL
78 341-01-053	HARROWER DAVID B & ELLEN W JT	PHOENIX	AZ
79 341-01-045	BURLINGAME ANTOINETTE	FAIRHOPE	NJ
80 341-01-020	A B N MANAGEMENT	REDLANDS	CA
81 341-01-049	MARION FAMILY PARTNERSHIP LP	WAYNE	NJ
82 341-01-046	SOUTH DAKOTA CONSERVANCY LLC	LAS VEGAS	NV
83 341-01-050	DEVINE PAUL T	SAN DIEGO	CA

BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION  
LINE SITING COMMITTEE

IN THE MATTER OF THE APPLICATION  
OF HUALAPAI VALLEY SOLAR LLC, IN  
CONFORMANCE WITH THE  
REQUIREMENTS OF ARIZONA REVISED  
STATUTES §§ 40-360.03 AND 40-360.06,  
FOR A CERTIFICATE OF  
ENVIRONMENTAL COMPATIBILITY  
AUTHORIZING CONSTRUCTION OF  
THE HVS PROJECT, A 360 MW  
PARABOLIC TROUGH CONCENTRATING  
SOLAR THERMAL GENERATING  
FACILITY AND AN ASSOCIATED  
GEN-TIE LINE INTERCONNECTING  
THE GENERATING FACILITY TO THE  
EXISTING MEAD-PHOENIX 500kV  
TRANSMISSION LINE OR THE  
MOENKOPI-EL DORADO 500kV  
TRANSMISSION LINE.

Docket No. L-00000NN-09-0541-00151


Case No. 151

APPLICANT'S NOTICE OF  
FILING PROPOSED TOUR  
MAP AND ITINERARY

Pursuant to Paragraph 15 of the Procedural Order dated November 25, 2009,  
Hualapai Valley Solar ("HVS") gives notice of filing the proposed tour map and itinerary.

Respectfully submitted this 4<sup>th</sup> day of January, 2010.

LEWIS AND ROCA LLP



Thomas H. Campbell  
Albert H. Acken  
40 N. Central Avenue  
Phoenix, Arizona 85004  
Attorneys for Hualapai Valley Solar LLC  
(602) 262-5723 (Tel.)  
(602) 734-3841

1 **ORIGINAL** and twenty-five (25) copies  
2 of the foregoing filed this 4<sup>th</sup> day  
3 of January, 2010, with:

4 The Arizona Corporation Commission  
5 Utilities Division – Docket Control  
6 1200 W. Washington Street  
7 Phoenix, Arizona 85007

8 **COPY** of the foregoing hand-delivered  
9 or served electronically this 4<sup>th</sup> day of  
10 January, 2010, to:

11 John Foreman, Chairman  
12 Arizona Power Plant and Transmission Line Siting Committee  
13 Office of the Attorney General  
14 PAD/CPA  
15 1275 W. Washington Street  
16 Phoenix, Arizona 85007

17 Janice Alward, Chief Counsel  
18 Arizona Corporation Commission  
19 1200 W. Washington Street  
20 Phoenix, Arizona 85007

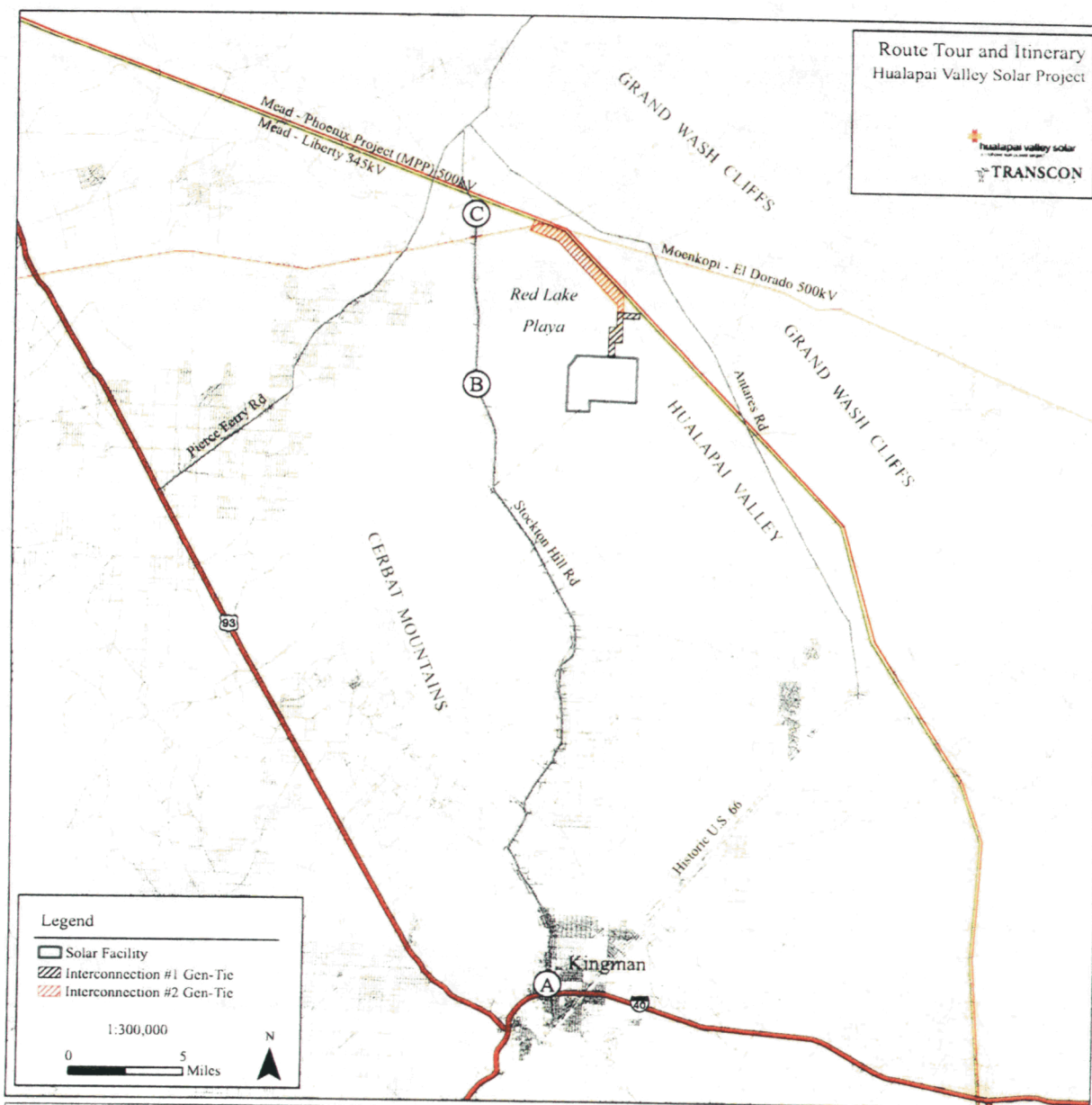
21 Susan A. Moore-Bayer  
22 7656 West Abrigo Drive  
23 Golden Valley, Arizona 86413

24 Denise Herring-Bensusan  
25 4811 E. Calle Bill  
26 Kingman, Arizona 86409

Israel G. Torres  
Torres Consulting and Law Group LLC  
209 E. Baseline Road  
Suite E-102  
Tempe, Arizona 85283

*Betty J. Griffin*





12/31/09

#### Route Tour Trip Itinerary Details

**Start Location, Date, and Time:** Hampton Inn (1791 Sycamore Avenue, Kingman, AZ 86409) parking lot at 8:00 a.m. on January 13, 2009  
**Estimated Length and Travel Time:** 74 miles and approximately 2 to 2.5 hours of travel time

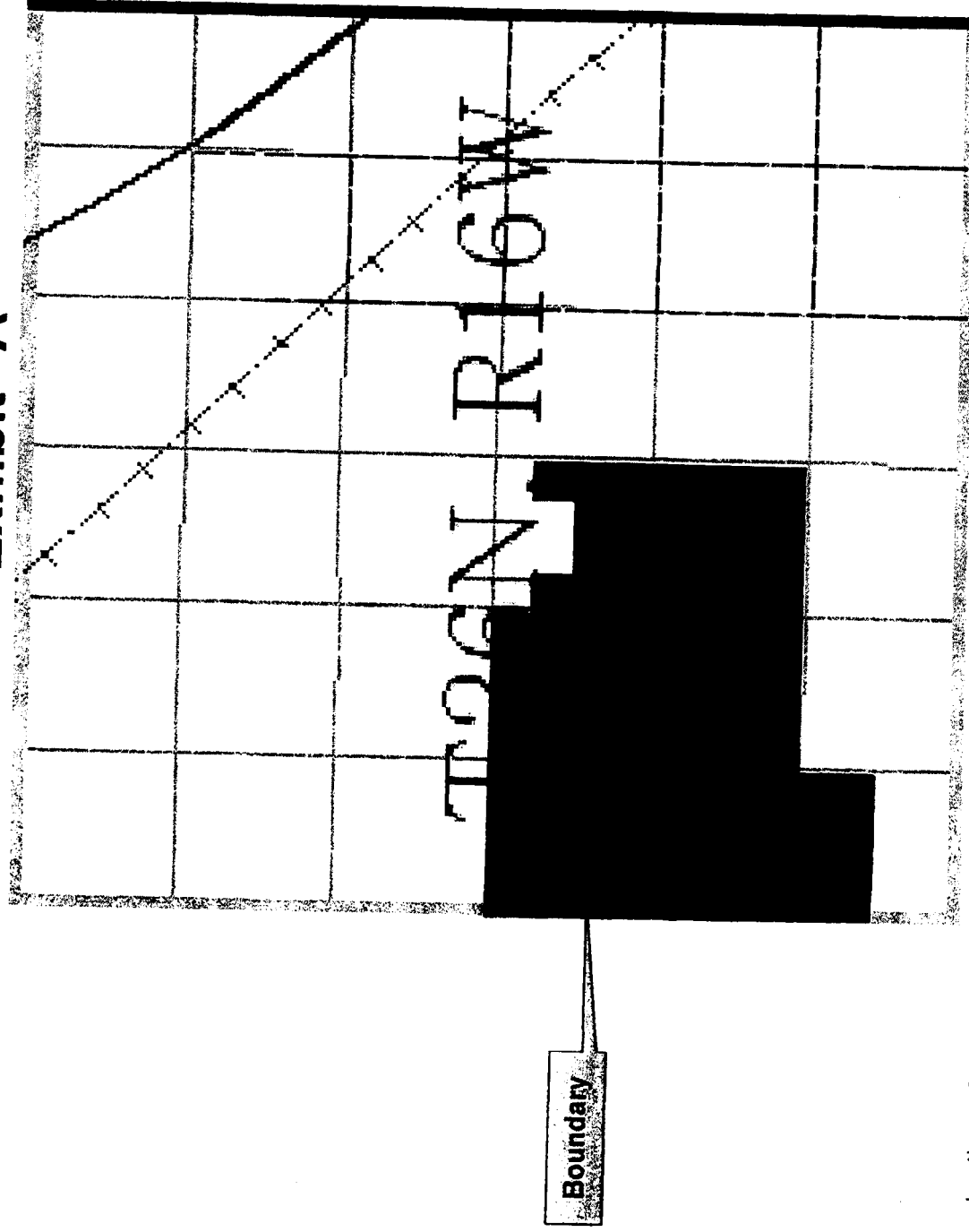
#### View Point Descriptions and Driving Directions

Note that the letters below correspond to the letters on the map.

- Beginning and end point at Hampton Inn parking lot. To commence the route tour travel north on Stockton Hill Road 29.5 miles to stop B.
- Stop and View. Location of public hearing notification sign. The proposed project access road would run east to the solar facility. The solar facility would be located approximately 3.5 miles to the east. Continue North on Stockton Hill Road for 7.7 miles to stop C.
- Stop and View. This location offers a view from the north of Red Lake Playa southeast to the solar facility. Return to beginning (Stop A) by traveling south on Stockton Hill Road for 37.2.

BAY1-C-1

# Exhibit "A"



Evaluation of a request for the approval of a MAJOR AMENDMENT TO THE MOHAVE COUNTY GENERAL PLAN for Sections 19, 20, 28, 29, 30, and N 1/2 of Section 31, and Section 21 excluding N 1/2 N 1/2 and SE 1/4 NW 1/4 and SW 1/4 NE 1/4 thereof, in Township 26 North, Range 16 West to change the land use designation from a RDA (Rural Development Area) land use designation to an RDA, RI (Rural Development Area, Rural Industrial) land use designation and amending Exhibits VI.4 and VI.6 of the General Plan to match, consisting of approximately 6.3 square miles in the Mohave County General Area, Mohave County, Arizona.

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May. 12, 2009  
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## **World's largest solar-thermal plant planned for Arizona land sold by Rhodes**

By DAVE HAWKINS  
SPECIAL TO THE LAS VEGAS REVIEW-JOURNAL

KINGMAN, Ariz. -- A Tempe-based firm intends to build and operate what it says will be the world's largest solar-thermal power plant on land in northwest Arizona that it has acquired from Las Vegas developer Jim Rhodes.

Mohave Sun Power LLC will later complete the purchase of the 4,160 acres 27 miles north of Kingman if it obtains the required permits and approval at the federal, state and local level, project director Greg Bartlett said.

Construction should begin late next year, providing up to 1,500 jobs, he said. More than 100 people would staff the plant during initial operation, forecast for late 2013.

Mohave Sun Power Executive Director Mitchell Dong said six square miles of parabolic mirrors will be built to harness the sun at a facility that will generate 340 megawatts of electricity.

The mirrors concentrate sunlight on long tubes of oil.

"It's a synthetic oil heated to 800 degrees by the sun's light," Dong said. "There are rows and rows of these collectors, and this 800-degree oil is pumped to a central power block, a central location where that hot oil goes to a boiler. It makes steam and drives a single steam turbine."

Dong said some of the generated heat will be stored in molten salt that will allow the plant to generate power at night when cloud cover diminishes solar radiation.

He also said the operation would require annual use of 1,500 to 3,000 acre-feet of groundwater. One acre-foot of water is enough to supply two Las Vegas Valley homes for one year.

Bartlett said company officials are well aware that use of groundwater is a sensitive subject. He noted, however, that the area had been targeted for residential development that would consume more water than the proposed solar facility.

Bartlett said water quality and quantity issues are the focus of ongoing hydrological study. The project will require zoning changes and plan amendments at the local level. He said company officials welcome public input and scrutiny.

"That's a very important part of the whole process," Bartlett said. "We embrace that."

Jack Ehrhardt, the leading environmental activist in northwest Arizona, guaranteed that scrutiny will be focused on water consumption issues as well as Dong himself, who was ordered to pay a

**BAY1-C-2**

penalty and interest sanction totaling nearly \$2.2 million by the Securities and Exchange Commission.

A January 2008 order by the SEC found that Dong and the Chronos Asset Management company he founded in 1995 engaged in a fraudulent market timing and late trading scheme. Dong was suspended for 12 months from investment adviser or investment company activity.

Dong explained that Chronos was a hedge fund with nearly \$500 million in assets under its management at its peak. He said he preferred to reach a settlement with the SEC rather than litigate allegations of improper trading.

"We chose to settle the matter, without admitting any wrongdoing, rather than to litigate," Dong said. "We were pleased to close this chapter and move on."

**Find this article at:**

<http://www.lvrj.com/business/44775192.html>

☐ Check the box to include the list of links referenced in the article.

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Apr. 01, 2009  
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## **Developer Rhodes seeks Chapter 11 bankruptcy**

By JOHN G. EDWARDS  
LAS VEGAS REVIEW-JOURNAL

Developer James Rhodes on Tuesday night filed a petition for bankruptcy on behalf of many of his key businesses, including Rhodes Design and Development Corp., listing \$100 million to \$500 million in assets and liabilities in the same range.

The developer filed for bankruptcy under Chapter 11, which allows the companies to continue operating while their finances are restructured.

Rhodes has been one of Las Vegas' most successful and controversial developers and homebuilders. He developed Rhodes Ranch in southwest Las Vegas and Tuscany Village in Henderson. He provoked the ire of environmentalists with his development of the Red Rock Country Club community.

Rhodes drew news coverage again when Erin Kenny, the former Clark County commissioner, disclosed that Rhodes paid her \$200,000 a year for consulting as part of an agreement in which she pleaded guilty to federal corruption charges. Kenny was sentenced to 30 months in prison in connection with a bribery case involving former strip club owner Michael Galardi.

The Arizona Corporation Commission questioned Rhodes about his business relationship with Kenny when he sought to establish a water utility for a master-planned community proposed in Golden Valley between Kingman and Bullhead City.

The Arizona panel also grilled Rhodes over \$148,000 in fines he paid after admitting he illegally funneled campaign contributions in 2002 through employees and employees' spouses to Sen. Harry Reid, and then County Commissioner Dario Herrera. Herrera also was convicted in connection with the bribery case.

The Rhodes Companies filed the bankruptcy petition but an attachment notes that 31 affiliated companies also are seeking protection under Chapter 11 bankruptcy.

They include Rhodes Ranch General Partnership, Rhodes Ranch Golf and Country Club, Tuscany Golf Country Club, Tuscany Acquisitions and three similarly named companies, Rhodes Realty, Rhodes Homes Arizona, Rhodes Arizona Properties, Tribes Holdings, Six Feathers Holdings and Bravo.

Rhodes filed a statement explaining that he believed "it is in the best interests of the company, its creditors" and others to file for Chapter 11.

The Sunstate Companies of Las Vegas is the largest unsecured creditor and is owed \$201,000, followed by G.C. Wallace of Las Vegas, which is owed about the same amount. The developer estimated that between 5,000 and 10,000 creditors will have claims in the bankruptcy case.

**BAY1-C-3**

He hired the law firm of Pachulski Stang Ziehl & Jones, which has offices in Los Angeles and other cities, but the petition was filed by Larson & Stephens of Las Vegas.

Contact reporter John G. Edwards at [jedwards@reviewjournal.com](mailto:jedwards@reviewjournal.com) or 702-383-0420.

**Find this article at:**

<http://www.lvrj.com/news/42251777.html>

☐ Check the box to include the list of links referenced in the article.

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**BAY1-C-3**



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## The Rhodes Companies, LLC

### Related Debtors

#### Real Time Data

General Information

Court Docket

Court-Filed Documents

Schedules & SOFA's

Monthly Operating Reports

Plans and Disclosure Statements

Proofs Of Claim Docket

Proof of Claim Form & Instructions

Submit an Inquiry

#### Debtor

**Heritage Land Company, LLC**

**The Rhodes Companies, LLC**

**Tribes Holdings, LLC**

**Apache Framing, LLC**

**Geronimo Plumbing, LLC**

**Gung-Ho Concrete, LLC**

**Bravo, Inc.**

**Elkhorn Partners, a Nevada Limited Partnership**

**Six Feathers Holdings, LLC**

**Elkhorn Investments, Inc.**

**Jarupa, LLC**

**Rhodes Realty, Inc.**

**C & J Holdings, Inc.**

**Rhodes Ranch General Partnership**

**Rhodes Design and Development Corp.**

**Parcel 20, LLC**

**Tuscany Acquisitions IV, LLC**

**Tuscany Acquisitions III, LLC**

**Tuscany Acquisitions II, LLC**

**Tuscany Acquisitions, LLC**

Case #

Filing Date

09-14778

3/31/2009

09-14814

3/31/2009

*Primary Case*

09-14817

3/31/2009

09-14818

3/31/2009

09-14820

3/31/2009

09-14822

3/31/2009

09-14825

3/31/2009

09-14828

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09-14849

3/31/2009

09-14850

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09-14852

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09-14853

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BAY1-C-4



Rhodes Ranch Golf and Country Club	09-14854	3/31/2009
Overflow, LP	09-14856	3/31/2009
Wallboard, LP	09-14858	3/31/2009
Jackknife, LP	09-14860	3/31/2009
Batcave, LP	09-14861	3/31/2009
Chalkline, LP	09-14862	3/31/2009
Glynda, LP	09-14865	3/31/2009
Tick, LP	09-14866	3/31/2009
Rhodes Arizona Properties, LLC	09-14868	3/31/2009
Rhodes Homes Arizona, LLC	09-14882	4/1/2009
Tuscany Golf Country Club, LLC	09-14884	4/1/2009
Pinnacle Grading, LLC	09-14887	4/1/2009

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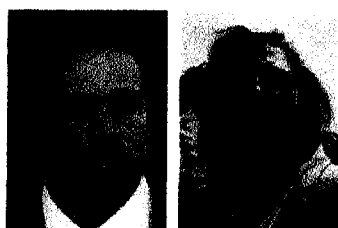
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Jun. 17, 2009  
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## Dario Herrera, Erin Kenny returning to Las Vegas after stays in prison

By ADRIENNE PACKER  
LAS VEGAS REVIEW-JOURNAL



Dario Herrera and Erin Kenny are being shipped back to Las Vegas from their respective federal prison camps, but their lives back home will bear little resemblance to their high-flying, high-living days as Clark County commissioners.

• [Jane Ann Morrison blog](#)

During his years in office, Herrera was accustomed to free passes into popular nightclubs, with complimentary lap dances, it was revealed during his 2006 trial.

He received sex on the house, and his golf game was spiced up with topless bar dancers at no additional cost.

The 35-year-old will come home Thursday a single man. His wife, Emily Herrera, who sat expressionless while detailed accounts of her husband's affairs were aired in the courtroom, filed and was granted a divorce a year ago.

Herrera has spent the last 45 months in a prison camp in Florence, Colo., after he was convicted of accepting bribes from strip club owner Michael Galardi.

Acquaintances said the once-rising Democratic star who earned his degree from the Boyd School of Law at the University of Nevada, Las Vegas, taught law classes at the facility.

Prior to Herrera's sentencing in late 2006, Jonathan Stern of ADG Capital, the company that employed Herrera and built the \$80 million Loft 5 condominiums, said Herrera would have a job to come home to.

But the construction industry tanked while Herrera was locked up. The number at the company's New York headquarters has been disconnected.

Ashley Hall, director of public relations for the Church of Jesus Christ of Latter-day Saints, said he kept in contact with Herrera, who joined the church after he was indicted in 2003.

Hall wouldn't discuss Herrera's time in prison, other than to say he frequently sent Herrera books.

Kenny, who pleaded guilty to accepting bribes from Galardi, cooperated with the government and testified against Herrera and former colleague Mary Kincaid-Chauncey.

BAY1-C-5

Kenny and Herrera might spend the remaining days of incarceration at the same facility, the Las Vegas Corrections Center at 2901 Industrial Road. Kenny's return date couldn't be obtained today.

The facility is a halfway house that looks like a three-story office building with little security other than closed-circuit cameras.

The 124-bed institution allows inmates to find employment and re-establish ties to the community with the help of a case manager.

Visitation rules are liberal, and inmates are permitted to leave for the day to work, but are required to return at night.

It is unclear how long Herrera will remain at the center. But Kincaid-Chauncey was transferred to the Las Vegas halfway house on Dec. 16 and was released to home confinement just two weeks later, after she served all but six months of her 30-month sentence.

John Casale, the facility's director, did not return phone messages Tuesday and today.

Like Herrera, it is doubtful Kenny's cash flow will compare to her tenure as a commissioner.

Not only did Kenny collect her commission salary, which ranged from \$54,000 to \$70,000 over the years, but she also accepted \$200,000 from real estate consultant Don Davidson, between \$150,000 and \$200,000 from Galardi and \$3,000 a month from Triple Five Development.

After Kenny, 48, surrendered her commission seat to run for lieutenant governor in 2003, developer Jim Rhodes began paying her \$15,000 a month for her advice on government services.

Kenny testified that Rhodes upped her salary to \$201,600 a year after she was indicted.

Rhodes filed for bankruptcy earlier this year.

Rhodes, who also builds homes in Arizona, was questioned by the Arizona Cooperation Commission about his relationship with Kenny. He was never charged with any crime.

During her 30-month term at an Arizona prison camp, Kenny missed several of her children's milestones and accomplishments.

Her oldest son, Pat Kenny, recently graduated from Meadows High School, and his football team won the state championship. As a wrestler, he also won the regional championship for his weight class.

Kenny's daughter is in her 20s and attending college.

Herrera is scheduled to be released from the prison system on Dec. 14, and Kenny on Dec. 18, according to the Bureau of Prisons Web site.

The only player in the political corruption scheme who will remain incarcerated after Herrera and Kenny serve their final months in the system is Lance Malone, a one-time commissioner who served as a lobbyist for Galardi.

Malone, who received a six-year sentence for delivering cash bribes on behalf of Galardi, is scheduled to be released in July 2012.

Galardi, who pleaded guilty to the bribery charges and received a 30-month sentence, was

**BAY1-C-5**

**MAY 13, 2001**

THE MOHAVE COUNTY ECONOMIC DEVELOPMENT AUTHORITY, BETTER KNOWN AS MCEDA, IN ITS LAST BOARD MEETING, MAY 3, 2001, VOTED UNANIMOUSLY TO BEGIN WORKING WITH THE MOHAVE COUNTY PLANING AND ZONING DEPARTMENT TO

UPDATE THE MOHAVE COUNTY GENERAL PLAN. KEVIN DAVIDSON FROM THE MOHAVE COUNTY PLANNING AND ZONING DEPARTMENT ALSO PARTICIPATED IN THE DISCUSSION. MCEDA EXECUTIVE DIRECTOR BILL GOODALE WILL BRING THE AREA PLAN FOR THE I-40 INDUSTRIAL CORRIDOR, THE CORRIDOR THAT RUNS FROM JUST OUTSIDE THE CITY OF KINGMAN, FROM THE McCONNICO EXIT TO TOPOCK AT THE CALIFORNIA BORDER, ALONG THE WAY, A TWO-MILE STRETCH OF HIGHWAY 95 TOWARDS LAKE HAVASU CITY BEGINNING AT THE INTERSTATE 40, HIGHWAY 95 INTERCHANGE. MCEDA'S BOARD OF DIRECTORS HAVE DEVOTED SIGNIFICANTLY IN THE FORMATION OF A PLAN TO KEEP INDUSTRY CLOSE TO MAJOR TRANSPORTATION ROUTES AND REALIZE THE SPECIAL NEEDS OF INDUSTRY, TO DEVELOP THE INFRASTRUCTURE WITHIN THE CORRIDOR MAKING THE I-40 INDUSTRIAL CORRIDOR ATTRACTIVE TO BUSINESS AND INDUSTRY. MCEDA PRESIDENT HENRY VARGA SAYS, EMPHASIS ON THE I-40 CORRIDOR IS TO PROVIDE A PLACE THAT IS COMFORTABLE, COMPATIBLE AND EASY FOR INDUSTRY TO COME TO. THE I-40 INDUSTRIAL CORRIDOR AND OTHER CORRIDORS IN THE PLANNING STAGES ARE DESIGNED TO KEEP INDUSTRY OUT OF RESIDENTIAL AREAS, AND RESIDENTIAL AREAS SEPARATE FROM INDUSTRY.

ALONG WITH DAVIDSON AND OTHER PLANNING AND ZONING STAFF WILL BEGIN WORK ON ISSUES THE MODEL RAISES. ACCORDING TO DAVIDSON, THIS IS A MAJOR AMENDMENT TO THE COUNTY GENERAL PLAN, AFTER MCEDA AND THE COUNTY PLANING AND ZONING FINISH THE UPDATE, WE WILL SCHEDULE MEETINGS FOR PUBLIC INPUT AND FINALLY SUBMIT THE REVISED GENERAL PLAN TO THE COUNTY SUPERVISORS FOR THEIR APPROVAL. MCEDA EXECUTIVE DIRECTOR BILL GOODALE

**BAY1-C-6**



SAYS A LOT OF WORK IS STILL AHEAD AND LOOKS FORWARD TO WORKING WITH THE COUNTY PLANING AND ZONING DEPARTMENT.

MCEDA PRESIDENT HENRY VARGA NOTES THAT THE INCORPORATION OF THE I-40 INDUSTRIAL CORRIDOR PLAN IS IMPORTANT BECAUSE, MCEDA IS LOOKING FORTY TO FIFTY YEARS IN THE FUTURE, NOT NEXT WEEK OR NEXT YEAR, AND ALSO AT HISTORY. WE DO NOT NEED ANOTHER LAX. THERE INDUSTRY AND RESIDENTIAL AREAS ARE MIXED AND PROBLEMS EXIST.

FOR MORE INFORMATION CONTACT:  
BILL GOODALE - EXECUTIVE DIRECTOR, MCEDA  
(520) 692-6970

ACCORDING TO MCEDA PRESIDENT HENRY VARGA, BOARD MEMBERS, PAST AND PRESENT HAVE CONTRIBUTED THEIR TIME AND IDEAS IN THE FORMATION OF A COUNTYWIDE MODEL OF BUSINESS AND INDUSTRIAL GROWTH.

INTEREST IN THE MANAGED INDUSTRIAL AND ECONOMIC DEVELOPMENT FOR MOHAVE COUNTY BEGAN IN THE MIDDLE 1980'S. AS INDUSTRY, FROM OUTSIDE THE COUNTY, PURCHASED LAND AT THE KINGMAN AIRPORT, AT THAT TIME A COUNTY PROPERTY, QUESTIONS REGARDING WHAT TYPES OF INDUSTRY, AND WHERE THEY LOCATED MOVED A GROUP OF LOCAL BUSINESSMEN TO FORM CITIZENS FOR PROGRESS. LATER THIS LOCAL ORGANIZATION REQUESTED THE BOARD OF SUPERVISORS TO FORM A COUNTY WIDE DEPARTMENT FOR THE PURPOSE OF RECRUITING AND LOCATING FUTURE BUSINESS AND INDUSTRY WITHIN MANAGED AREAS OF THE COUNTY TO FIT THEIR PARTICULAR NEEDS.

IN 1992, THE MOHAVE COUNTY BOARD OF SUPERVISORS ASSISTED IN THE CREATION OF

MCEDA, AS A NON-PROFIT ORGANIZATION, WITH A BOARD OF DIRECTORS MADE UP OF MOHAVE COUNTY BUSINESS MEN AND WOMEN, AND CHARGED THEM WITH PLANNING INDUSTRIAL GROWTH TO INCREASE THE TAX BASE FOR THE COUNTY AND PROVIDE HIGH WAGE JOBS FOR THE CITIZENS OF MOHAVE COUNTY.

THE I-40 INDUSTRIAL CORRIDOR AND ITS

BAY1-C-6

**D**



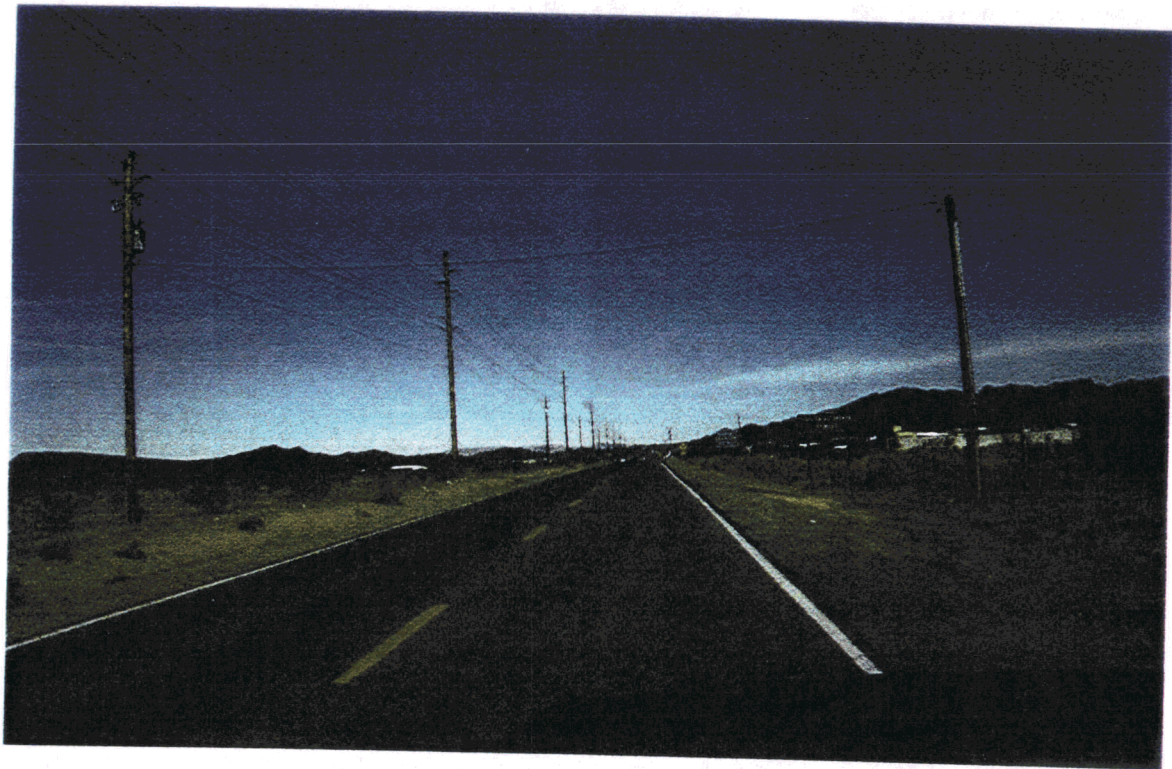
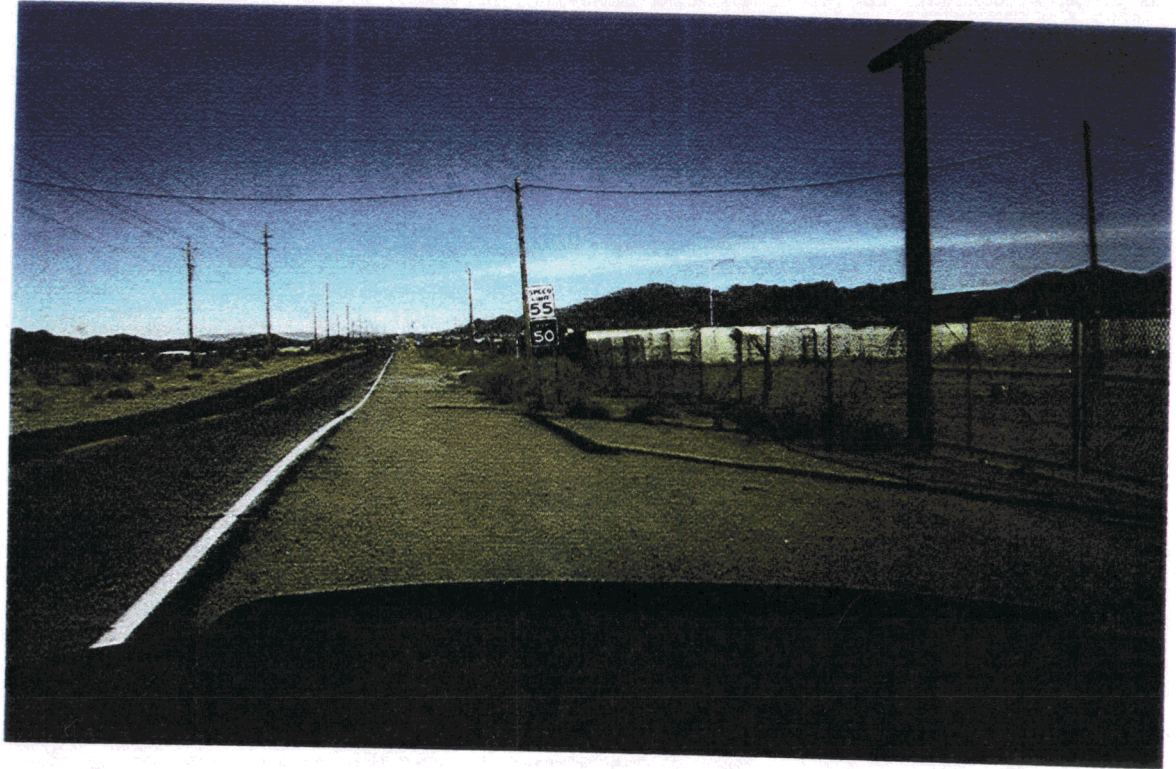


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BAY1-D-1

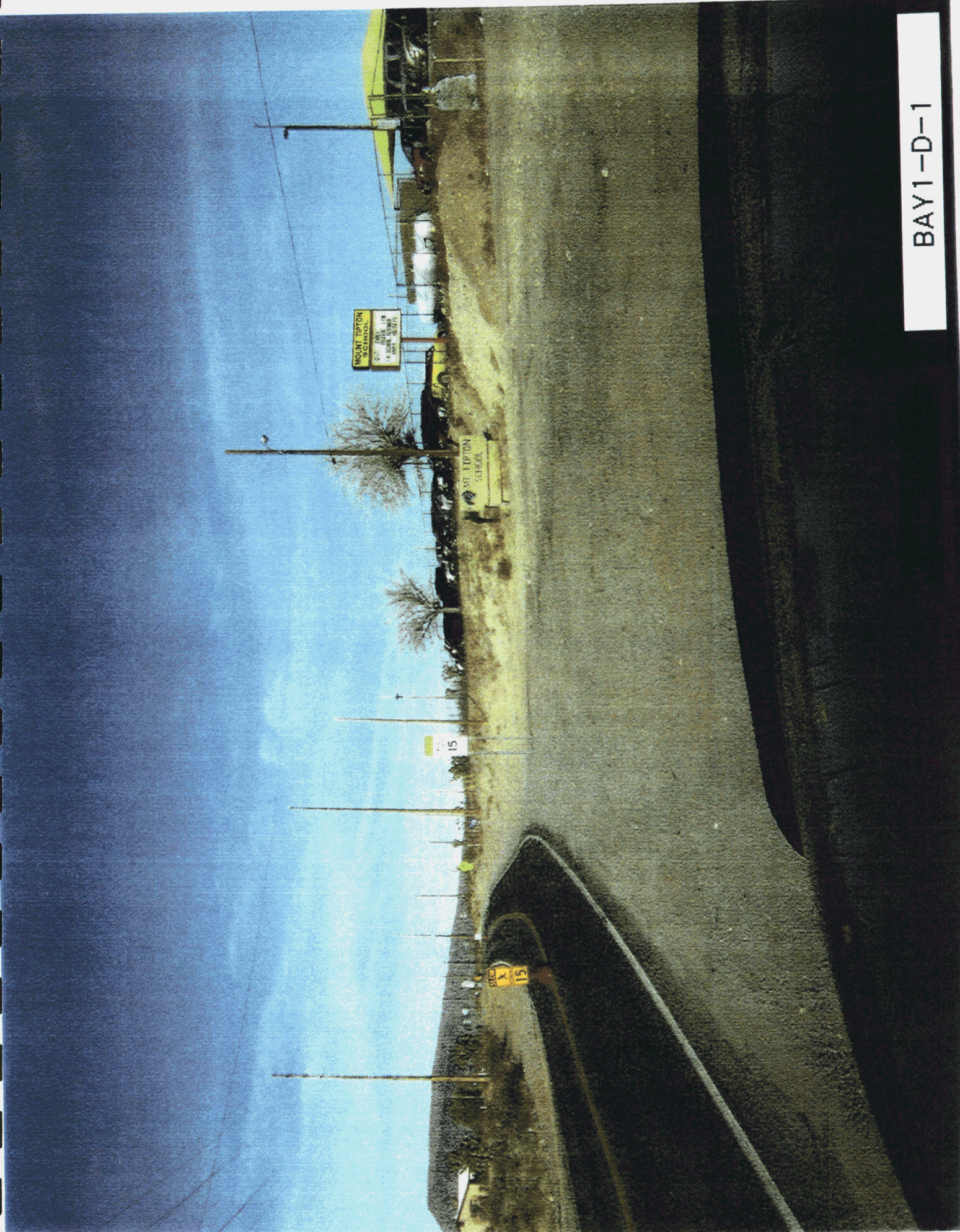




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**E**





THE STATE OF ARIZONA  
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DEPUTY DIRECTORS  
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ROBERT D. BROSCHEID



August 20, 2009

Mr. Kevin A. Davidson  
Mohave County  
Planning and Development Department  
P.O. Box 7000  
Kingman, AZ 86402-7000

**Re: Hualapai Valley Solar Project**

Dear Mr. Davidson:

The Arizona Game and Fish Department (Department) has reviewed the above-referenced Major General Plan amendment. The Department understands the amendment would allow construction and operation of a concentrating solar facility in Hualapai Valley. The Department has provided comments on this project to Mr. Mike LaRow, Hualapai Valley Solar, LLC. We have included a copy of these comments as an attachment.

The Department supports the use of solar technologies that minimize the amount of water and land needed to produce viable solar facilities. When CSP technology is used, we encourage the use of dry cooling methods to significantly minimize water consumption. We also support the use of hybrid parallel wet/dry cooling system which reduces water consumption to a slightly lesser extent. However, we do not support the use of water cooling methods. The process of water cooling consumes a great deal of water and is not suitable in a semi-desert environment where water resources are extremely limited.

Thank you for the opportunity to provide comments on the amendment. We look forward to continued communications with Hualapai Valley Solar LLC and Mohave County regarding the project development and implementation. Please contact me at 623-236-7606 if you have any questions, or would like to further discuss our concerns and recommendations.

Sincerely,

Ginger Ritter  
Project Evaluation Project Specialist, Habitat Branch

cc: Laura Canaca, Project Evaluation Program Supervisor, Habitat Branch  
Trevor Buhr, Habitat Program Supervisor, Region III  
Karl Taylor, Mohave County, Planning Manager

AGFD #M09-08195103

BAY1-E-1



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DIRECTOR  
LARRY D. VOYLES  
DEPUTY DIRECTORS  
GARY R. HOVATTER  
ROBERT D. BROSCHEID



August 20, 2009

Mr. Mike LaRow  
Hualapai Valley Solar LLC

**Re: Hualapai Valley Solar Project**

Dear Mr. LaRow:

The Arizona Game and Fish Department (Department) has reviewed the project information for Hualapai Valley Solar Project. We understand that the proposed project would construct a 340 MW generating station located on approximately 4,160 acres of semi-desert grassland habitat within sections 19-21 and 28-31 of Township 26 North, Range 16 West. The Department has the following comments for your consideration in preparation of an application for a Certificate of Environmental Compatibility for the Arizona Corporation Commission and other environmental analyses.

The Department is concerned about the amount of ground water that is required to operate the facility (3,000 acre feet/year). The Mohave County General Plan states that "estimated annual water use in Hualapai Valley will be over 14,000 acre-feet per year and exceed natural recharge placing the aquifer under stress from depletion." As a result, the lowered water table will indirectly affect Arizona's habitats in Hualapai Valley and may have considerable affects on wildlife which depend on small cienegas, springs, seeps, and marshes in the area. The Hualapai Valley Solar project will increase this affect if it is developed as a concentrated solar power facility. In the Mohave County General Plan there are goals and policies (e.g. Goal 3, Policy 3.5; Goal 36, Policy 36.12) that support industry and development that consume less water. The Department encourages Hualapai Valley Solar to consider other technologies which require less water to operate.

The Department is also concerned about the use of settling ponds to collect the highly saline wastewater in the evaporative cooling component of the proposed project. These ponds will likely attract birds, bats, and other wildlife which could then be inadvertently poisoned due to concentrated salt and other minerals. Therefore, the Department recommends the ponds be screened to prevent unsuitable and possibly fatal use.

BAY1-E-2

Lastly, the Department is concerned about the possible effects of facility lighting on nocturnal wildlife. Artificial night lighting, which may be intensified by the collection mirrors, may attract insects and the species that prey on them (e.g. bats). It could also impair the ability of nocturnal animals to navigate and may negatively affect reptile populations. The Department recommends using only the minimum amount of light needed for safety. Narrow spectrum bulbs should be used as often as possible to lower the range of species affected by lighting. All lighting should be shielded, cantered, or cut to ensure that light reaches only areas needing illumination.

In conclusion, the Department recognizes the purpose and need for alternative energy development but we also recognize that solar developments will negatively impact wildlife habitat. We believe project mitigations should focus on the following primary issues related to wildlife and their habitats:

- Wildlife habitat connectivity
- Depletion of water resources
- Wildlife impacts resulting from site development and facilities
- Project monitoring to evaluate project impacts and inform adaptive mitigation solutions

The Hualapai Valley Solar Project will substantially alter or eliminate approximately 4,160 acres of wildlife habitat. Impacts to Hualapai Valley's wildlife may also extend beyond the physical footprint of the project boundaries, potentially increasing the number of acres affected by the project. Attached you will find recommendations for the project. (**Note:** The Department is in the process of developing guidelines for solar energy development which is expected to be completed by the end of 2009). Further, Department Policy 12.3 requires that we seek compensation for potential habitat losses resulting from land and water projects in accordance with State and Federal laws. The Department would like to recommend mitigating the project through:

- funding research on the effects of solar energy to surrounding wildlife.
- protecting/purchasing land equivalent to the amount being taken or relocating on unused agricultural lands.

The Department's Research Branch has developed a monitoring plan to elucidate whether the impact of this, and other utility-scale solar projects, stops at the project boundaries or if it extends beyond the project's physical footprint. This monitoring approach would inform planning, development, and mitigation on future projects by determining the true impacts from habitat loss, degradation and fragmentation. We would be interested in presenting this plan to representative from Hualapai Valley Solar for consideration as they strive to develop renewable energy projects while minimizing impacts to wildlife resources.

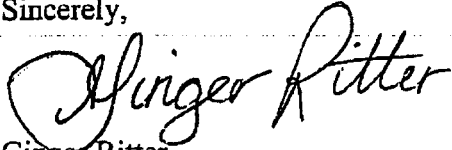
Mr. Mike LaRow

August 20, 2009

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Thank you for the opportunity to provide comments on this proposed project. We look forward to continued communications with Hualapai Valley Solar, LLC regarding the project development and implementation. Please contact me at 623-236-7606 if you have any questions, or would like to further discuss our concerns and recommendations.

Sincerely,



Ginger Ritter

Project Evaluation Project Specialist, Habitat Branch

cc: Laura Canaca, AGFD, Project Evaluation Program Supervisor, Habitat Branch  
Trevor Buhr, AGFD, Habitat Program Manager, Region III  
Janice Stroud, AGFD, Habitat Specialist, Region III  
Kevin A. Davidson, Mohave County, AICP Planner II  
Karl Taylor, Mohave County, Planning Manager

AGFD #M09-07132546

BAY1-E-2



### ***Department Recommendations for the Hualapai Valley Solar Project***

To minimize the potential impacts to wildlife habitat and populations resulting from the development and operation of the Hualapai Valley Solar Project, the Department recommends implementing the following:

1. We strongly encourage Hualapai Valley Solar to meet with representatives of the Department to discuss a recently developed monitoring plan that will provide data to determine the extent of this project's impacts to wildlife habitat and connectivity. Our goal is to implement this monitoring plan on a landscape-scale by partnering with the solar industry, thereby allowing us to make accurate predictions regarding the impact that these projects will have on desert ecosystems. This data will greatly inform the appropriate planning and mitigation necessary to reduce impacts to wildlife and their habitat.
2. The Department recommends additional pre-construction studies be performed which provide sufficient detail to map the habitat for all special status species within the project vicinity (e.g. wetland/riparian habitat, contiguous tracts of undisturbed wildlife habitat, raptor nest sites) and to determine seasonal movement corridors for species (e.g. winter bird concentrations, raptor migration, nesting). These maps, as well as others, should be used to show the location of sensitive resources and to establish the layout of roads, fences, and other infrastructure in order to minimize habitat fragmentation and disturbance. Pre-construction surveys should also be performed for bats since several special status bat species (e.g. Pale Townsend's big-eared bat, Allen's big-eared bat) have been found within the vicinity of the facility.
3. If wildlife is encountered during construction of the facility, it should be moved outside the project area within 1 mile of its original location. A scientific collecting permit is required for this activity. A permit can be obtained by emailing [Spermit@azgfd.gov](mailto:Spermit@azgfd.gov) for more information. If wildlife will need to be removed from the facility once it is operational, annual renewal of the permit will be required.
4. Project analysis should include evaluation of the direct, indirect and cumulative effects of project development on wildlife, wildlife habitat and wildlife habitat connectivity resulting from the conversion of 4,160 acres of semi-desert grassland habitat to a solar generating plant. If negative impacts are anticipated, the Department recommends implementing activities that could mitigate these impacts. Such activities may include, but are not limited to, preserving land elsewhere, restoring degraded land, and/or relocating facility footprint.
5. Project analysis should also include a thorough evaluation of the anticipated impacts to water resources. The Department strongly encourages the use of technology that requires minimal amounts of water. In the desert, water is very scarce and reducing consumption will lessen impacts on wildlife as well as the public.
6. Current hydrology of the project site should be maintained. Any change in sheet flow will have detrimental effects to down slope vegetation. In addition, consult with the U.S. Army Corps of Engineers regarding Clean Water Act issues, best management practices, and guidelines for minimizing and mitigating impacts to riparian areas.

BAY1-E-2

Mr. Mike LaRow

August 20, 2009

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7. For any powerlines built:

- a. Proper design and construction of the transmission line is necessary to prevent or minimize risk of electrocution of raptors, owls, vultures, and golden or bald eagles, which are protected under state and federal laws.
- b. Limit project activities during the breeding season for birds, generally May through late August, depending on species in the local area (raptors breed in early February through May). Conduct avian surveys to determine bird species that may be utilizing the area and develop a plan to avoid disturbance during the nesting season.
- c. Coordinate plant salvage and revegetation efforts with the Arizona Department of Agriculture, in accordance with the Arizona Native Plant Law. A reclamation plan is recommended for disturbed sites, where appropriate, including planting native, weed-free seed and vegetation.

BAY1-E-2





PALE TOWNSEND BIG EARED BAT

BAY1-E-3



© USDA Wildlife Services

## ALLEN BIG EARED BAT

BAY1-E-3



**F**



**Mohave County Water Resources Investigation Fact Sheet**  
**Estimating Groundwater Availability in the Detrital Valley, Hualapai Valley, and**  
**Sacramento Valley Groundwater Basins in Mohave County**

The Arizona Department of Water Resources (ADWR) has performed a series of studies in Mohave County aimed at updating and improving estimates of the amount of groundwater available in three groundwater basins: the Detrital Valley, Sacramento Valley and Hualapai Valley. The studies are presented in three ADWR Open-File Reports: #9 – Detrital Valley, #10 – Sacramento Valley, and #11 – Hualapai Valley. Estimating the amount of groundwater in these groundwater basins is an important factor for evaluating the water resources available for the Assured and Adequate Water Supply Program (AWS). The results of these studies are summarized here.

The extent of the aquifer and the water level in a groundwater basin needs to be determined to calculate the amount of groundwater available in the basin aquifers. To determine the extent of the aquifers, ADWR collected over 1,100 gravity measurements throughout the three groundwater basins which were used in conjunction with other geologic data (i.e. well logs and geologic maps) to produce depth-to-bedrock maps. ADWR also collected over 300 water levels in the three groundwater basins to determine groundwater levels. These data were combined to calculate the volume of groundwater in the groundwater basins. However, it is important to note that not all of the estimated groundwater may be available for withdrawal, possibly due to localized geological conditions or due to poor water quality. The volumes of groundwater shown below are ranges which represent best estimates of groundwater available in each groundwater basin depending on a range of hydrogeologic conditions, which are described in the Open-File Reports, and to the AWS Program depth limit of 1,200 feet below the land surface.

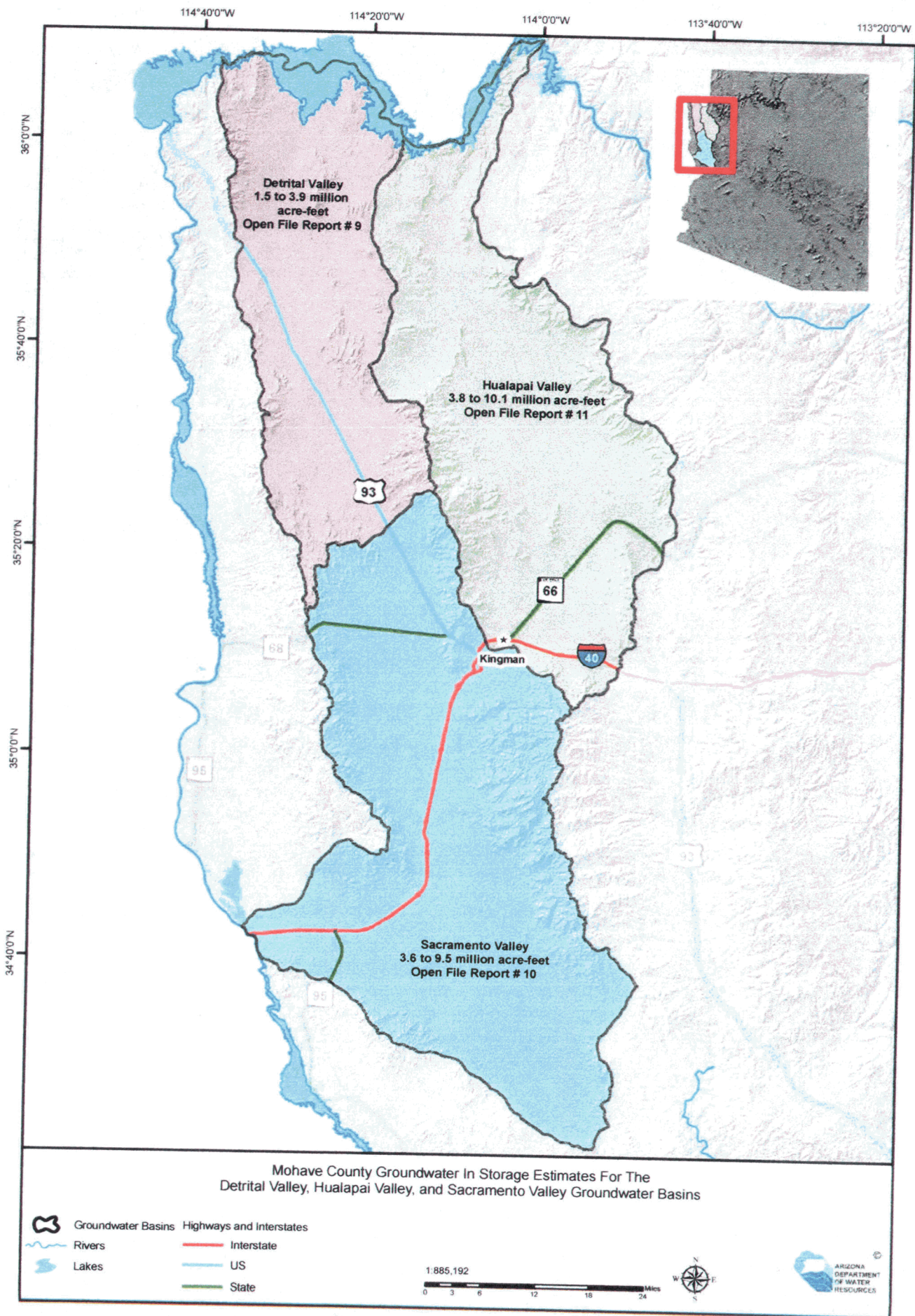
Detrital Valley Groundwater Basin:	1.5 to 3.9 million acre-feet
Sacramento Valley Groundwater Basin:	3.6 to 9.5 million acre-feet
Hualapai Valley Groundwater Basin:	3.8 to 10.1 million acre-feet

ADWR Open-File Report No. 9: Preliminary Estimate of Groundwater in Storage for the Detrital Valley Groundwater Basin, Mohave County, Arizona, 2007.

ADWR Open-File Report No. 10: Preliminary Estimate of Groundwater in Storage for the Sacramento Valley Groundwater Basin, Mohave County, Arizona, 2008.

ADWR Open-File Report No. 11: Preliminary Estimate of Groundwater in Storage for the Hualapai Valley Groundwater Basin, Mohave County, Arizona, 2009.





BAY1-F-1

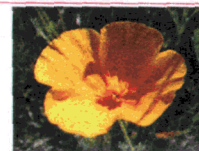


## Arizona Department of Water Resources Drought Program

[Drought Home](#)
[Community Water Systems](#)
[Local Drought Impact Groups](#)
[Drought Status](#)
[State Drought Committees](#)
[Resources](#)
[Contact Us](#)

### Drought Status

View Arizona's monthly drought status reports

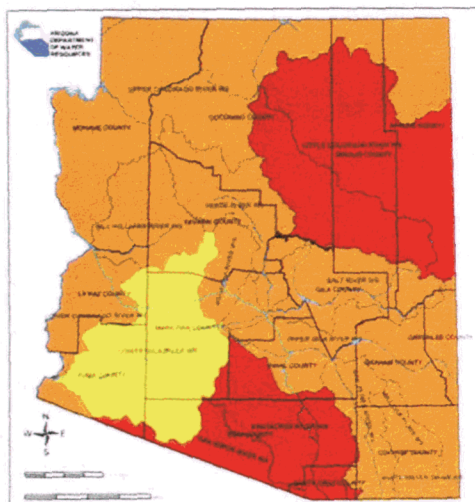


### Quick Links



Drought Status

#### How is drought status determined?



**November 2009 Short Term Drought Status**  
 Data Through October 31st, 2009  
 Arizona Drought Preparedness Plan  
 Monitoring Technical Committee


### NOVEMBER 2009 DROUGHT STATUS UPDATE

[Printable version](#)

#### Short-term Drought Status Update

Fourteen of the fifteen watersheds are in severe or extreme drought, and the lower Gila watershed is abnormally dry. Three watersheds, the Little Colorado River, San Simon, and Santa Cruz River are in extreme drought. Precipitation over the past 12 months has been well below average, decimating forage, weakening forests, reducing streamflow, and leaving stockponds and small natural lakes dry. The northeast plateau and southern watersheds were especially hard hit as the monsoon was dry, followed by relatively dry conditions in October. A few storms moved across the state in October, but they brought very localized precipitation, which was well below average values for this time of year. Reservoir storage along the Salt River has dropped, but remains adequate due to significant runoff from the White Mountains last spring, and in 2008.

Help us characterize and monitor changes in drought conditions by reporting drought impacts to [AZDroughtWatch](#).


**AZ DroughtWatch**  
 Arizona's Drought Impact Reporting System

- [eCWS Online Annual Reporting](#)
- [Local Drought Impact Group Meetings and Info.](#)
- [Community Water System FAQs](#)
- [Arizona Drought Preparedness Plan](#)
- [USDA Disaster Designation](#)
- [Arizona Firewise Communities](#)
- [Conservation Home Page](#)

BAY1-F-2

**G**

# Ground-Water Occurrence and Movement, 2006, and Water-Level Changes for the Detrital, Hualapai, and Sacramento Valley Basins, Mohave County, Arizona

By David W. Anning, Margot Truini, Marilyn E. Flynn, and William H. Remick<sup>1</sup>

## Abstract

Ground-water levels for water year 2006 and their change over time in Detrital, Hualapai, and Sacramento Valley Basins of northwestern Arizona were investigated to improve the understanding of current and past ground-water conditions in these basins. The potentiometric surface for ground water in the Basin-Fill aquifer of each basin is generally parallel to topography. Consequently, ground-water movement is generally from the mountain front toward the basin center and then along the basin axis toward the Colorado River or Lake Mead. Observed water levels in Detrital, Hualapai, and Sacramento Valley Basins have fluctuated during the period of historic water-level records (1943 through 2006). In Detrital Valley Basin, water levels in monitored areas have either remained the same, or have steadily increased as much as 3.5 feet since the 1980s. Similar steady conditions or water-level rises were observed for much of the northern and central parts of Hualapai Valley Basin. During the period of historic record, steady water-level declines as large as 60 feet were found in wells penetrating the Basin-Fill aquifer in areas near Kingman, northwest of Hackberry, and northeast of Dolan Springs within the Hualapai Valley Basin. Within the Sacramento Valley Basin, during the period of historic record, water-level declines as large as 55 feet were observed in wells penetrating the Basin-Fill aquifer in the Kingman and Golden Valley areas; whereas small, steady rises were observed in Yucca and in the Dutch Flat area.

## Introduction

Detrital, Hualapai, and Sacramento Valley Basins are broad, intermountain desert basins in Mohave County, northwestern Arizona, and are home to residents in the City of Kingman and several rural communities (fig. 1). The spatial extent of these basins is defined by the Arizona Department of Water

Resources<sup>2</sup> (ADWR) ground-water basin boundaries. Ground water is the primary source of water in these basins and is essential for many economic and cultural activities. As in many parts of the western United States, population growth in these basins is substantial. From 2000 to 2005, the population of Kingman grew from 20,100 to 25,900 — an increase of 29 percent (Arizona Department of Economic Security, 2006). During the same time period, the population of Mohave County increased by 21 percent. Management of the available ground-water resources in these basins, guided by a comprehensive scientific understanding of the area's natural resources, can help the growing communities to meet their water needs in a sustainable manner.

In 2005, the U.S. Geological Survey (USGS) began hydrogeologic investigations in the Detrital, Hualapai, and Sacramento Valley Basins in cooperation with ADWR as part of the Rural Watershed Initiative Program. The program, which was established by the State of Arizona and is managed by the ADWR, includes 17 areas throughout rural parts of the State. The overall objective of this investigation is to improve the understanding of the hydrogeologic systems of Detrital, Hualapai, and Sacramento Valley Basins. This investigation will be accomplished by:

- Evaluating current and past conditions of ground-water levels and ground-water movement
- Evaluating ground-water quality for key water uses.
- Developing a better understanding of the extent and lithology of geologic units and structures, and their relation to the storage and movement of ground water.
- Developing improved estimates for ground-water budget terms, including recharge, discharge, and total water in storage.
- Establishing a hydrologic-monitoring network to detect and characterize changes in aquifer conditions.
- Informing the hydrologic community and basin residents about hydrologic conditions.

<sup>1</sup>Hydrologist, Arizona Department of Water Resources



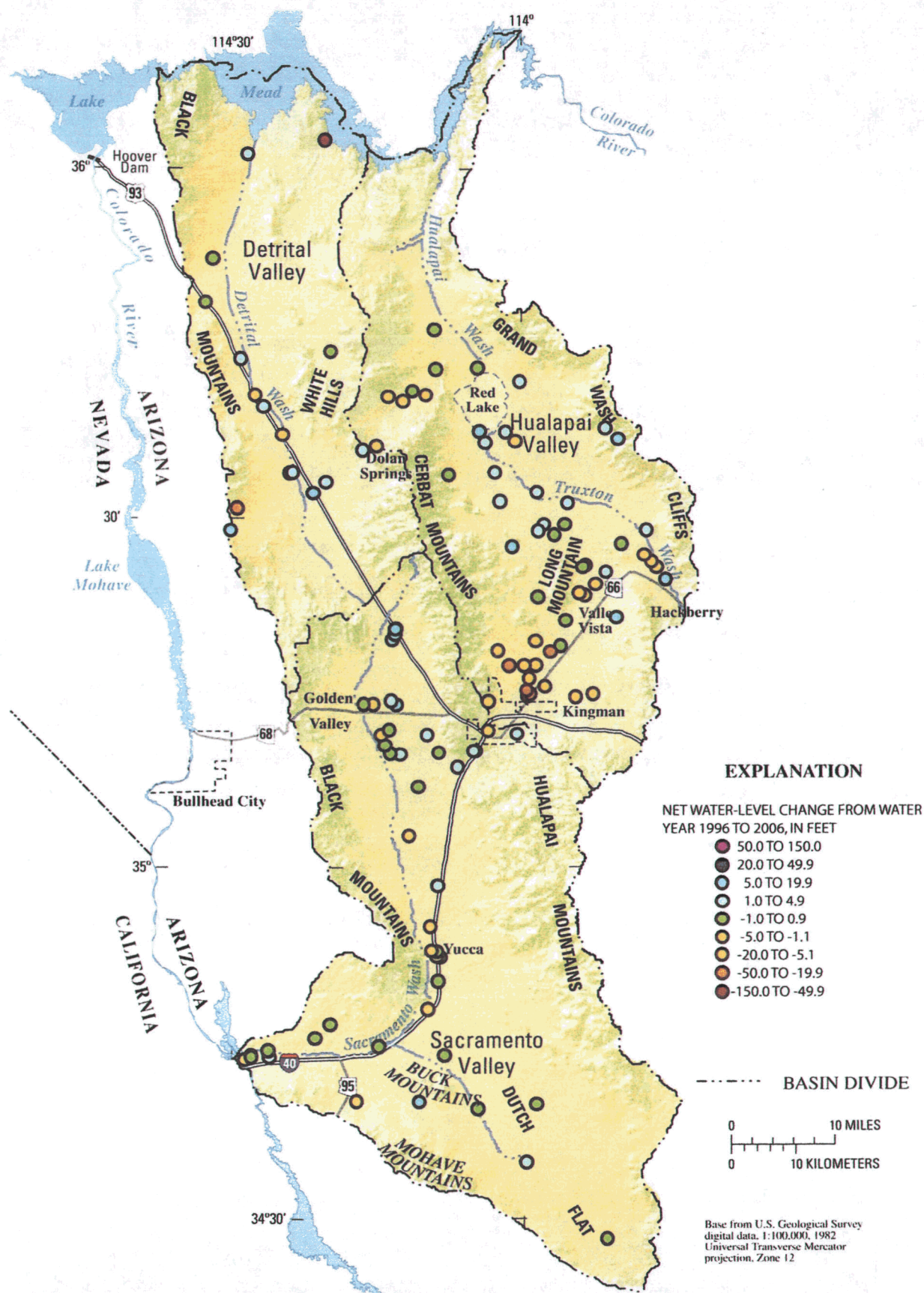


Figure 3. Net water-level change from water year 1996 to 2006 for selected wells, Detrital, Hualapai, and Sacramento Valley Basins, Mohave County, Arizona.



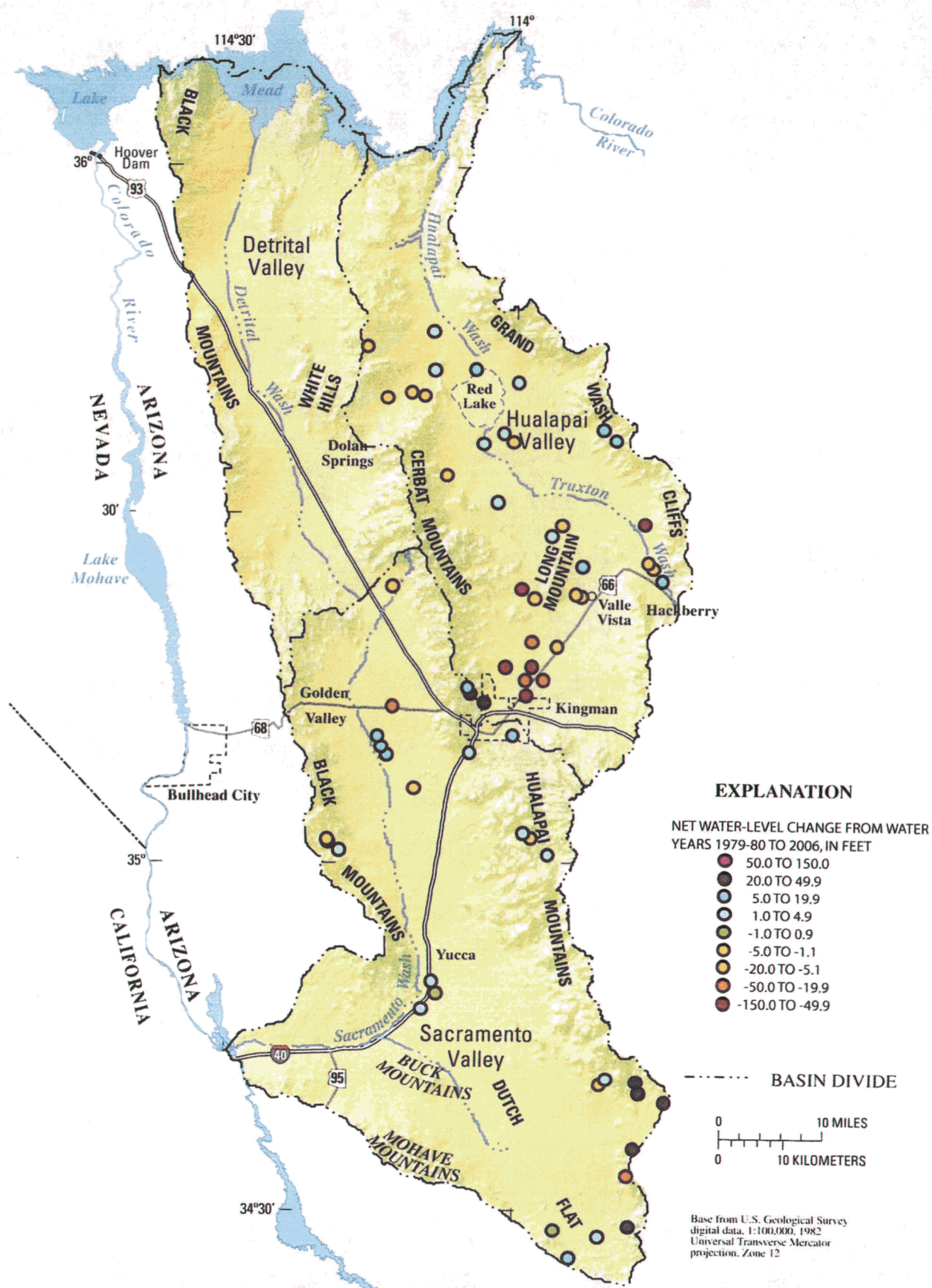


Figure 4. Net water-level change from water years 1979-80 to 2006 for selected wells, Detrital, Hualapai, and Sacramento Valley Basins, Mohave County, Arizona.



## Key Water Issues

**Colorado River Water.** The quality of water in Lakes Mead, Mohave and Havasu must be maintained to continue attracting tourists to the County. While many other jurisdictions have an impact on the Colorado River, Mohave County's economy and water supplies are so directly linked to the lakes and river that the County has a vital interest in preventing their contamination.

**Groundwater Quality.** To ensure the viability of its continued use, the quality of area groundwater should be monitored regularly. Key recharge areas in the mountains and bajadas should be protected from development activities that degrade water quality. The effects of urban runoff and septic systems effluent on groundwater quality should be minimized. Mohave County's updated Areawide Water Quality Management Plan ("208" Plan) is a tool to maintain watershed health.

**Water Availability.** Information on the use and availability of water should be monitored. While there appears to be enough water to meet anticipated demands in the rapidly urbanizing parts of the County for the next 40 to 50 years, long term water planning throughout the County will require better information than is currently available. Development of a Countywide water budget that identifies water supplies and demands for identified groundwater basin subareas will enable the County to use its water resources most efficiently.

## Water Quantity and Quality Goals and Policies

**Goal 3: To preserve the quantity and quality of water resources, in perpetuity, through out the County.**

Policy 3.1 Mohave County should cooperate with ADEQ, local water suppliers, and other agencies to maintain a water budget that inventories the quantity and quality of the County's water resources, identifies how those resources are being used, and monitors commitments for future water use.

Policy 3.2 The County should support programs to monitor groundwater quality and well levels.

Policy 3.3 Mohave County should encourage the efficient use of water resources through educational efforts.

Policy 3.4 New water intensive uses such as golf courses and man-made lakes shall require the use of treated effluent where and when available.

Policy 3.5 Mohave County will only approve power plants using "dry cooling" technology when the aquifer is threatened by depletion or subsidence.



# United States Department of the Interior

U.S. GEOLOGICAL SURVEY

Arizona Water Science Center  
Flagstaff Programs Office  
2255 North Gemini Drive  
Flagstaff AZ 86001

September 1, 2009

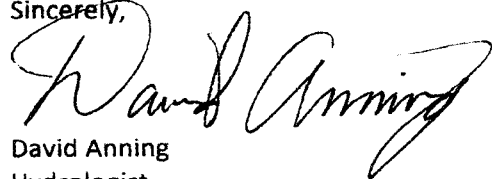
Susan Bayer  
7656 West Abrigo Drive  
Golden Valley, AZ 86413

Dear Ms. Bayer,

The purpose of this letter is to provide clarification on some questions you conveyed on our phone conversation August 31 regarding U.S. Geological Survey Scientific Investigations Report 2007-5182 "Ground-water occurrence and movement, 2006, and water-level changes in the Detrital, Hualapai, and Sacramento Valley Basins, Mohave County, Arizona" by David W. Anning, Margot Truini, Marilyn E. Flynn, and William H. Remick. This report has gone through the peer review process and was approved by the USGS on Aug. 28, 2007. The report is available in hardcopy and in digital form on the World Wide Web at <http://pubs.usgs.gov/sir/2007/5182>. The report is considered final; however, in accordance with USGS report policy, any erratum or updates needed for this report will be incorporated into the online copy of the report. As of today, both the printed and electronic copies of the report are the same because there have not been any erratum or updates to the report.

Regarding your concerns of aquifer depletion, the section "Long-term water-level changes" (pages 6-12) discusses areas in the Detrital, Hualapai, and Sacramento Valleys where the groundwater levels have fluctuated over time in response to groundwater recharge or groundwater depletion. The report shows several areas in each of the three basins where water-level rises have occurred during the past several decades as a result of aquifer recharge, as well as other areas where significant water-level declines were observed, such as an area along Truxton Wash near Hackberry, an area northeast of Kingman, and an area in Golden Valley. These three areas of noted decline represent areas where ground-water pumpage has depleted the aquifer. The report, however, does not include a computation of the volume of such groundwater depletions from pumpage or additions from recharge, nor was any comparison made of these changes to the total volume of groundwater available in storage.

Sincerely,



David Anning  
Hydrologist

BAY1-G-3



# **HYDROGEOLOGIC INVESTIGATION OF THE DETRITAL, HUALAPAI, AND SACRAMENTO VALLEY BASINS**

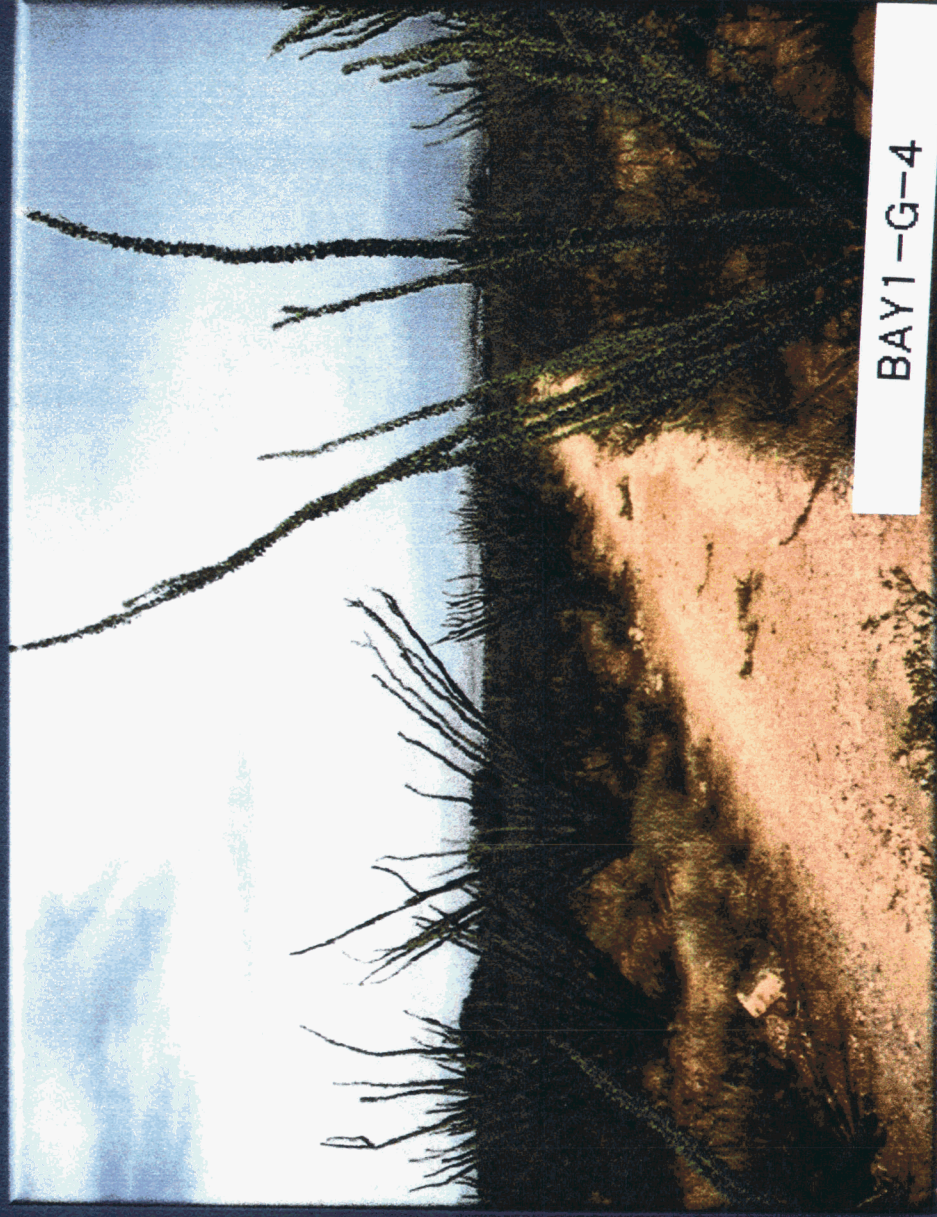
## **- Study Description -**

Margot Truini,  
U.S. Geological  
Survey

*In Cooperation with*  
Arizona Department  
of Water Resources



November 16, 2009



BAY1-G-4



## Step 4. Water Budget - A look at Recharge





to public and private entities.

Policy 36.8 Mohave County should support the location or relocation of businesses in Mohave County through the simplification of the development review process.

Policy 36.9 The County should cooperate with private and quasi-public entities, such as the Arizona Department of Commerce's North River Economic Region coordinator, the Chambers of Commerce and other economic development organizations to develop and update information on current and projected economic trends, labor force, land availability, development processes or other issues relevant to economic development efforts.

Policy 36.10 Mohave County should participate in efforts to obtain funding for economic development programs from State, Federal and other sources.

Policy 36.11 Mohave County should provide information and assistance to economic development projects interested in participating in State, Federal or other economic development programs.

Policy 36.12 Mohave County should pursue and support industries that have smaller environmental footprints as measured by their use of less water and energy resources as well as their creation of fewer emissions when compared to traditional industry.

**Goal 37: To encourage economic development at appropriate locations throughout Mohave County and the North River Economic Development Region.**

Policy 37.1 The Land Use Element and Area Plans should identify areas designated for future commercial and industrial development, including sites for renewable energy development. The Area Plans may include additional policies defining the appropriate types of non-residential development.

Policy 37.2 Development and redevelopment proposals in historic areas should further the preservation of these distinctive areas.

Policy 37.3 Mohave County should encourage the private sector to promote areas identified in the Land Use Element and Area Plans as primary locations for new industrial development. New locations for economic development activities should be considered once a need can be demonstrated. As a prerequisite, new locations must be able to be supported by existing or developer-provided infrastructure.

Policy 37.4 Capital improvement planning and funding by Mohave County should consider economic development benefits as a criteria in reviewing improvement projects and in setting funding priorities.

**Goal 38: To support economic development which provides employment opportunities for County residents at a variety of skill levels.**



## **Business Goals**

**Goal # 1: Financial Stability**

**Goal # 2: Create, Manage, and Improve the Most Effective Organization**

**Goal # 3: Continue to Advance our processes to Attract and Retain Quality Managers and Employees**

**Goal # 4: Create Formal Planning, Programming, and Budgeting System for Capital Asset Improvements and Infrastructure**

**Goal # 5: Enhance Public Health and Safety Process**

**Goal # 6: Create Emergency Response Program**

**Goal # 7: Create and Institutionalize a Strategic Planning System**

**Goal # 8: Manage a Sustainable and Comprehensive Regional Economic Development Strategy and Plan**

**Goal # 9: Proactive in Preserving and Protecting Natural Resources**